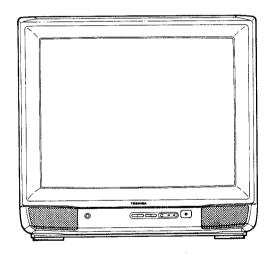
# SERVICE DATA FILE NO. 053-396 4-SYSTEM

# TOSHIBA COLOUR TELEVISION 2503SFZ

2503SFZ is the same as 2502SFT except for the cabinet parts.
Use this service data together with the service data for 2502SFT (File No. 050-396).

## REPLACEMENT PARTS LIST



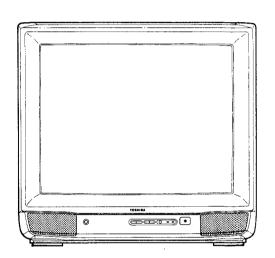
Location No.	Part No.	Description
A201S A231 A235 A401 A411 A701 A702	23419565 23443476 23443477 23423590 23567933 23524081 23934122	Front Cover Knob, POWER Knob, UP-DOWN Back Cover Label, Model No., B/C Carton Box Packing, Bottom
A702 A703 Y101	23934123 23561606	Packing, Top Owner's Manual

# TOSHIBA CORPORATION

# SERVICE DATA FILE NO. 050-396 4-SYSTEM



# TOSHIBA COLOUR TELEVISION 2502SFT



SPECIFICATIONS			
Input Power Rating:	92 watts, AC 220 volts, 50 Hz		
Aerial Input Impedance:	75 ohm unbalanced type for VHF and UHF		
Receiving Channels:	SECAM-L Standard:  VHF	:41	
Intermediate Frequencies:	Picture I-F carrier frequency:       L       38.9 MHz (VH, U)       34.47 MHz(V         B/G, I       38.9 MHz         Sound I-F carrier frequency:       L       32.4 MHz (VH, U)       40.97 MHz(V         B/G       33.4 MHz         I       32.9 MHz		
Picture Tube:	25 inches, A59ECY13X31, 510 mm (measured on diagonal of viewable picture area), 110° deflection		
Sound Output:	3.0 watts (at 10% harmonic distortion) x 2, Max. 4.5 watts x 2		
Speakers:	70 mm x 60 mm oval 2 pcs		
Aux. Terminals:	Headphone Jack, 21 pin socket, S-VIDEO/AUDIO socket, A/V INPUT socket		
Dimensions:	Height       556 m         Width       600 m         Depth       442 m	m	
Weight:	26 kg		

 $Specifications\ are\ subject\ to\ change\ without\ notice.$ 

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### SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

#### X-RAY RADIATION PRECAUTION

- 1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 27.5 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
- 2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
- Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.
  - For continued safety, replacement component should only be made after referring the Product Safety Notice below.

#### SAFETY PRECAUTION

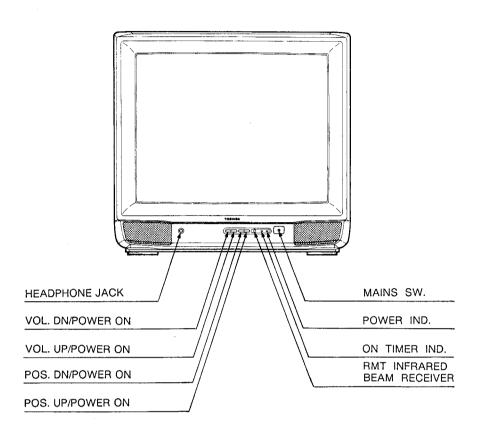
- This receiver has a nominal working E.H.T. voltage of 25.0 kV. Extreme caution should be exercised when working on the receiver with the back removed.
  - Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.
  - When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
  - The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.
  - Do not hold the C.R.T. by the neck as this is a very dangerous practice.
- It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.

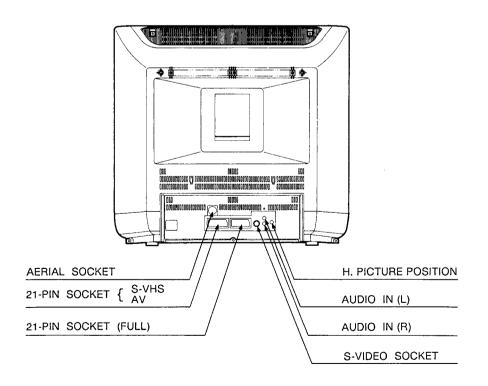
- 3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
- 4. Replace blown fuses within the receiver with the fuse specified in the parts list.
- 5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
- Keep wires away from high temperature components.

#### PRODUCT SAFETY NOTICE

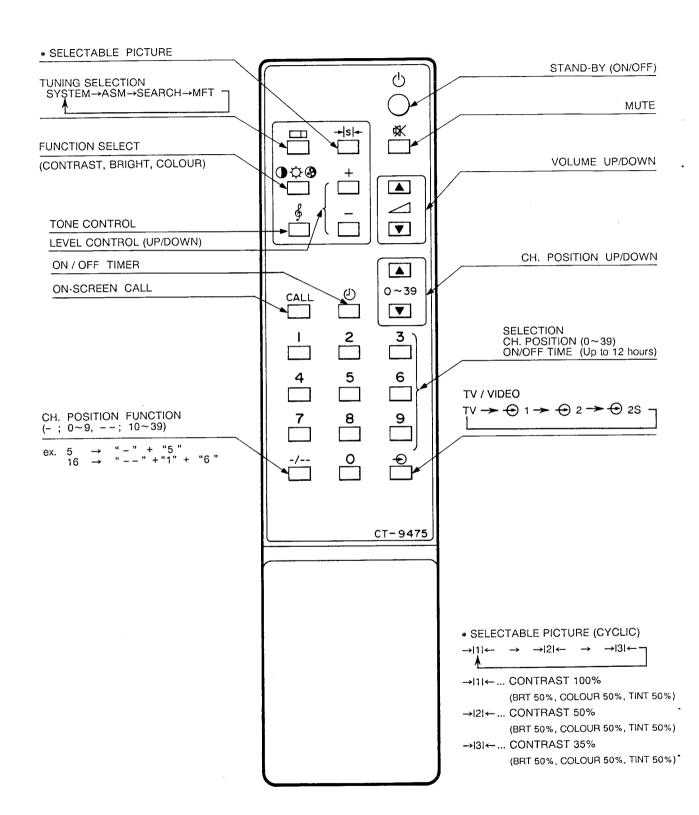
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc.Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

# FRONT CONTROLS AND REAR VIEWS





#### REMOTE HAND HELD UNIT



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

#### INSTALLATION AND SERVICE ADJUSTMENTS

#### GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials.

Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

#### **AUTOMATIC DEGAUSSING**

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least one hour in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

#### + 120 VOLT POWER SUPPLY ADJUSTMENT (R851)

**CAUTION:** +B voltage closely relates to the high voltage. To prevent hazardous X-RAY RADIATION, the +B voltage must be properly adjusted to +120 volts.

- Tune in an active channel. Adjust the BRIGHTNESS and CONTRAST Controls for normal picture.
- Check that the AC power Line voltage is normal. (AC 220 volts, 50 Hz)
- 3. Connect a digital voltmeter to both leads of C451.
- 4. Adjust R851 for 120V reading on the meter.
- 5. Remove the digital voltmeter.

#### HIGH VOLTAGE CHECK

**CAUTION:** There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

- Connect an accurate high voltage meter to the second anode of the picture tube.
- Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
- 3. High voltage will be measured below 29.0 kV.
- Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 29.0 kV under any conditions.

#### **HEIGHT ADJUSTMENT**

- Receive the WG PHILIPS pattern, and set the contrast and colour to minimum, and the brightness to centre.
- Change the VERT POSITION SW (\$301) so the round shape in the pattern is located in the centre of screen.
- HEIGHT Control (R351) changes the size of the picture or pattern, having an equal effect on the top and bottom. Make final adjustment to overscan the mask 2 cm at top and bottom.

#### HORIZONTAL CENTRE ADJUSTMENT

- 1. Receive the WG PHILIPS pattern.
- Set the contrast and colour to minimum, and the bringhtness to centre.
- 3. Adjust H. CENTRE USER Control (R452) to the click (centre) position.
- 4. Adjust H. CENTRE SUB Control (R451) so the pattern centre can be located at the screen centre.

#### FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS.(T46) for well defined scanning lines in the centre area on the screen.

#### R-F AGC ADJUSTMENT

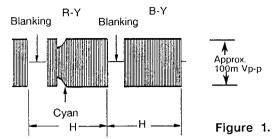
- 1. Tune the set in the strongest station in your area.
- 2. Turn RF AGC Control (R151) on PIF Board to fully counterclockwise position.
- 3. Adjust RF AGC Control clockwise until noise (srow) disappears on the screen.

#### **BELL COIL (LM01) ADJUSTMENT**

1. Receive SECAM colour bar signal.

Connect the synchroscope to the terminal pin 2 of

3. Adjust LM01 for the flat level of amplitude in each colour bar waveform on the scope. (See figure 1.)



#### IDENT COIL (LM04) ADJUSTMENT

 Receive SECAM colour bar signal.
 Connect the DC voltmeter (Digital Voltmeter) to the pin 23 of IC501.

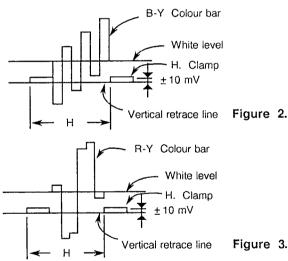
Adjust LM04 for the maximum indication (approx. DC10V) on the meter.

#### B-Y, R-Y DEMOD COIL (LM02, LM03) ADJUSTMENT

1. Receive SECAM colour bar signal.

- Set the COLOUR, BRIGHTNESS and CONTRAST Controls free.
- Connect the synchroscope to the pin 62 of IC501.
- 4. Adjust LM02 so that the white level in picture part reaches to the vertical retrace line. (See figure 2.)
- Then change the connection of synchroscope from the pin 62 to the pin 60 of IC501.

  6. Adjust LM03 so that the white level in picture part
- reaches to the vertical retrace line. (See figure 3.)



#### PAL MATRIX ADJUSTMENT

- 1. Tune in the colour programme of the Philips pattern.
- 2. Set the COLOUR Control to obtain the proper colour.
- 3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
- 4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
- 5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
- 6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.

7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

#### CRT GREY SCALE ADJUSTMENT

- 1. Tune in an active channel.
- 2. Turn the SCREEN Control (on T461) fully counterclockwise.
- 3. Set the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) counterclockwise to the minimum position.
- 4. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the mid position.
- 5. Set the CUT OFF SW. (S202) in the H. line position.
- Short temporarily terminal of RASTER CHIP on the CRT DRIVE Board.
- 7. Set the CONTRAST, COLOUR Controls to minimum. and BRIGHTNESS Control to centre.
- 8. Rotate the SCREEN Control gradually clockwise until the first horizontal line of a colour (RED, GREEN or BLUE) appears slightly on the screen. Set the SCREEN Control to this position.
- 9. Open the terminal of RASTER CHIP on the CRT DRIVE Board.
- 10. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE). The lines may look like white if the CUT OFF Controls are adjusted properly.
- 11. Return the CUT OFF SW. (S202) in the receiving position.
- 12. Set the BRIGHTNESS Control to the maximum.
- 13. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
- 14. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

#### SUB-BRIGHTNESS ADJUSTMENT

- 1. Tune in a colour programme.
- 2. Set the CONTRAST Control to the maximum and the BRIGHTNESS Control to the centre.
- Set the COLOUR Control to the minimum.
- 4. Set the SUB-BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
- 5. Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
- 6. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
- 7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

# PICTURE I-F SWEEP ALIGNMENT

GENERAL	Refer to figure 4 for test equipment connection.
	1. Supply +12 volts to the IF Board.
	2. Connect pin 12 of P101 to +12 V.
	3. Connect pin 24 of IC101 to ground through a capacitor 10 $\mu$ F.
	4. Connect pin 29 of IC101 to ground.
SWEEP/MARKER GENERATOR	Connect to pin 6 of P101 as shown in figure 4 on the IF Board.
	Set to 30 $\sim$ 40 MHz sweep with signal level of 75 $\sim$ 85 dB $\mu$ .
OSCILLOSCOPE	Connect to pin 1 of IC101 on the IF Board through the detector.

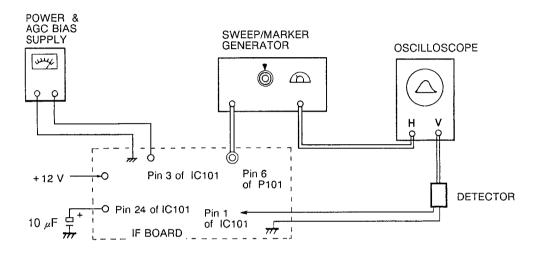


Figure 4. Picture IF Sweep Alignment

STEP	SWEEP/MARGER GENERATOR	ADJUST	REMARKS	
Detector     Coil	38.9 MHz Marker "ON"	L151	<ul> <li>Connet pin 10 of P101 on the IF Board to +12 V.</li> <li>Supply +2 to +3 volts to pin 3 of IC101 to set the output level for 0.4 Vp-p on the scope.</li> <li>Adjust L151 so that the marker (38.9 MHz) on the response can get zero beat with free-run frequency. (See figure 5.)</li> <li>Remove the short of the pin 10 of P101.</li> <li>After completing CN51 adjustment, repeat this step again.</li> </ul>	
2. Detector Capacitor 34.47 MHz Marker "ON" CN51		CN51	<ul> <li>Connect to pin 10 of P101 on the IF Board to ground.</li> <li>Supply +2 to +3 volts to pin 3 of IC101 to set the detection output for 0.4 Vp-p on the scope.</li> <li>Adjust CN51 so that the marker (34.47 MHz) on the response can get zero beat with free-run frequency. (See figure 5.)</li> <li>Remove the short of pin 10 of P101.</li> <li>After completing L151 adjustment, repeat the step again.</li> </ul>	
After co Board,	After completing the above steps, disconnect the equipment and re-solder the liniks on the Main Board, and adjust the AGC Delay control (R151) following DELAYED RF AGC ADJUSTMENTS.			

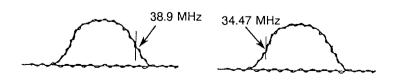


Figure 5. Magnified Response Curve

## AFC ALIGNMENT

GENERAL Refer to figure 6 for test equipment connection.

1. Disconnect the IF Board from the Main Board.

2. Disconnect the solder link on the foil side of IF Board.

3. Supply +12 volts to the IF Board. (See figure 6.)

4. Short the collector of QN15 to ground.

5. Turn AGC DELAY Control (R151) on the IF Board fully clockwise.

6. Connect pin 12 of P101 to +12 V.

DVM Connect to the resistor R128 (® in figure 6) and ground.

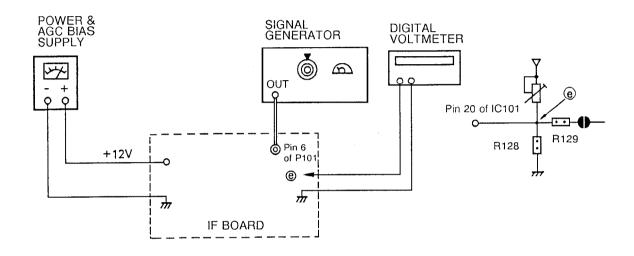


Figure 6. AFC Alignment

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
1. AFC Balance (R153)	NO SIGNAL	R153	<ul> <li>Short the pin 3 of IC101 to ground.</li> <li>Adjust R153 for 4.5 volts at the point @ in figure 6.</li> </ul>
2. AFC Coil (L153)	38.9 MHz CARRIER WAVE (Level : 75 to 85 dBμ)	L153	<ul> <li>Remove the short of pin 3 of IC101.</li> <li>Apply +12 V to pin 10 of P101.</li> <li>Connect IF carrier wave to the pin 6 of P101 in figure 6.</li> <li>Adjust L153 for 4.3 volts on the meter at the point ®.</li> <li>After completing L152 adjustment, repeat this step again.</li> </ul>
3. AFC Capacitor (L152)	34.47 MHz CARRIER WAVE (Level : 75 to 85 db <sub>μ</sub> )	L152	<ul> <li>Connect pin 10 of P101 to ground.</li> <li>Connect IF carrier wave to the pin 6 of P101 in figure 6.</li> <li>Adjust L152 for 4.3 volts on the meter at the point ®.</li> <li>After completing L153 adjustment, repeat this step again.</li> </ul>

## SECAM DET-OUT & SOUND IF ALIGNMENT

#### L SECAM DET-OUT (R152) ADJUSTMENT

- 1. Disconnect the IF Board from the Main Board.
- 2. Supply +12 V to the IF Board.
  - 2-1 Short the base of QN15 to ground.
- 2-2 Connect pin 12 of P101 to ground.

  3. Set AGC to Self AGC condition.
- 4. Connect synchroscope to the emitter of Q103 through 10:1 probe.
- 5. Connect the 2-signal generator to IF input, and set up the generator as described below.

IF frequency

38.9 MHz

Signal level

75 to 85 dB<sub>μ</sub>

Video modulation

97%

Positive modulation: Video signal fH

15.625 kHz

Picture

Pattern with 100% white

6. Adjust the AC LEVEL Control (R152) for 2.0Vp-p on the scope.

#### I-PAL SIF DET (L652) ADJUSTMENT

- 1. Disconnect the SIF Board from the Main Board.
- 2. Supply +12V to pin 1 and pin 11 of P601.
- 3. Connect SIF generator to base of Q602 through 0.01 μF capacitor.
- 4. Connect the oscilloscope to pin 3 of P601.
- 5. Set up the SIF generator as described below.

Sound carrier frequency: Modulation frequency

6.0 MHz 1000 Hz

Frequency deviaiton

± 15 kHz

Signal level

80 dB<sub>μ</sub> (50 ohm load)

6. Adjust L652 for the maximum response of 1000 Hz det-out on scope.

#### B/G-PAL SOUND DET (L651) ADJUSTMENT

- 1. Disconnect the SIF Board from the Main Board.
- 2. Supply +12V to pin 1 of P601 and connect pin 11 of P601 to ground.
- 3. Connect the SIF generator to base of Q602 through 0.01 μF capacitor.
- 4. Connect the oscilloscope to pin 3 of P601.
- 5. Set up the SIF generator as described below.

Sound carrier frequency:

5.5 MHz

Modulation frequency

1000 Hz

Frequency deviaiton

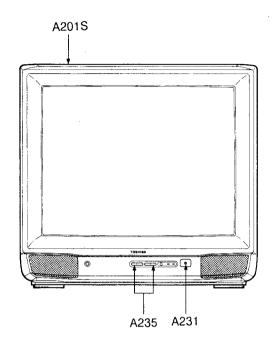
±15 kHz 80 dBμ

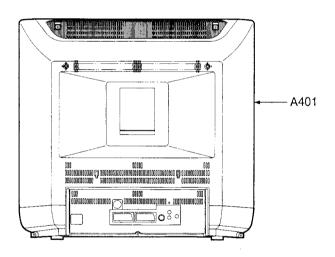
Signal level

(50 ohm load)

6. Adjust L651 for the maximum response of 1000 Hz det-out on scope.

# CABINET REPLACEMENT PARTS LIST





Location <b>N</b> o.	Part No.	Description
A201S	23418687	Front Cover
A231	23443476	Button, POWER
A235	23443477	Button, UP-DOWN
A401	23423590	Back Cover
A411	23567315	Label, Model No., B/C
A701	23523726	Carton Box
A702	23934122	Packing, Bottom
A703	23934123	Packing, Top
A710	23567316	Label, Model No., Carton
Y101	23561095	Owner's Manual

## CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

The part number must be used when ordering parts, in order to assist in processing, be sure to NOTICE: include the Model number and Description.

#### **ABBREVIATIONS:**

PF: Plastic Film EL: Electrolytic Capacitors...... CD : Ceramic Disk 

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITOR	S	
C101	24212102	CD, 1000pF, ±10%
C102	24212102	CD, 1000pF, ±10%
C103	24436101	CD, 100pF
C104	24797220	EL, 22μF, ±20%, 50V
C105	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C106	24797229	EL, $2.2\mu$ F, $\pm 20\%$ , 50V
C107	24590473	PF, 0.047μF
C108	24636010	EL, 1μF, 50V
C109	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C103	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C110	24797229	EL, 2.2μF, ±20%, 50V
C112	24436470	CD, 47pF
C112	24797478	EL, 0.47μF, ±20%, 50V
C114	24794470	EL, 47µF, ±20%, 16V
C115	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C116	24232103	CD, 0.01μF, +80%, -20%
C117	24085939	EL, $4.7\mu$ F, $\pm 20\%$ , 25V,
CIII	24000000	Non-Polar
C119	24232103	CD, 0.01μF, +80%, -20%
C120	24212222	CD, 2200pF, ±10%
C120	24085988	EL, 1μF, ±20%, 50V,
0,21		Non-Polar
C122	24590153	PF, 0.015μF
C123	24797478	EL, 0.47μF, ±20%, 50V
C124	24794101	EL, 100μF, ±20%, 16V
C125	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C126	24212152	CD, 1500pF, ±10%
C127	24794471	EL, 470μF, ±20%, 16V
C160	24212102	CD, 1000pF, ±10%
C162	24212102	CD, 1000pF, ±10%
C163	24212102	CD, 1000pF, ±10%
C164	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C165	24212102	CD, 1000pF, ±10%
C166	24212102	CD, 1000pF, ±10%
C169	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C170	24212102	CD, 1000pF, ±10%
C180	24212102	CD, 1000pF, ±10%
C181	24212102	CD, 1000pF, ±10%
C182	24212102	CD, 1000pF, ±10%
C184	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$

Location No.	Part No.	Description
C185	24212102	CD, 1000pF, ±10%
C201	24797100	EL, $10\mu$ F, $\pm 20\%$ , $50V$
C202	24795101	EL, 100μF, 25V
C203	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C204	24797220	EL, 22μF, ±20%, 50V
C205	24636478	EL, 0.47μF, 50V
C208	24212102	CD, 1000pF, ±10%
C209	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C210	24797100	EL, 10μF, ±20%, 50V
C211	24212561	CD, 560pF, ±10%
C212	24538224	PF, 0.22μF
C213	24590104	PF, 0.1μF
C214	24794101	EL, $100\mu$ F, $\pm 20\%$ , $16$ V
C240	24538474	PF, 0.47μF
C241	24794100	EL, 10μF, ±20%, 16V
C301	24797229	EL, $2.2\mu$ F, $\pm 20\%$ , $50$ V
C302	24212152	CD, 1500pF, ±10%
C303	24617912	EL, $2.2\mu$ F, $\pm 10\%$ , $50$ V
C304	24212102	CD, 1000pF, ±10%
C306	24603563	PF, $0.056\mu$ F, $\pm 10\%$ , $100$ V
C307	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C312	24590243	PF, 0.024μF
C313	24668101	EL, $100\mu$ F, $\pm 20\%$ , $35$ V
C314	24796102	EL, 1000μF, 35V
C315	24214221	CD, 220pF, ±10%, 500V
C316	24667332	EL, 3300μF, ±20%, 25V
C317	24617912	EL, $2.2\mu$ F, $\pm 10\%$ , $50$ V
C318	24082049	PF, 0.047μF, 100V
C319	24693224	PF, 0.22μF, 100V
C321	24214391	CD, 390pF, ±10%, 500V
C327	24693224	PF, 0.22μF, 100V
C328	24212272	CD, 2700pF, ±10%
C330	24796470	EL, 47μF, 35V
C360	24095945	PF, 0.47μF, 200V
C362	24212152	CD, 1500pF, ±10%
C363	24095948	PF, 0.36μF, 200V
C364	24212471	CD, 470pF, $\pm 10\%$
C365	24797470	EL, $47\mu$ F, $\pm 20\%$ , $50$ V
C366	24593182	PF, 1800pF
C368	24590104	
C373	24590273	PF, 0.027μF

Location No.	Part No.	Description
·	24520474	PF, 0.47μF
C374	24538474	
C402	24353271	CD, 270pF
C403	24797339	EL, $3.3\mu$ F, $\pm 20\%$ , $50$ V
C405	24590203	PF, 0.02μF
C406	24590203	PF, 0.02μF
C407	24590243	PF, 0.024μF
C408	24797100	EL, 10μF, ±20%, 50V
		CD, $0.01\mu\text{F}$ , $+80\%$ , $-20\%$
C409	24232103	•
C412	24590182	PF, 1800pF
C413	24590182	PF, 1800pF
C414	24212471	CD, 470pF, $\pm 10\%$
C416	24214271	CD, 270pF, ±10%, 500V
C417	24214332	CD, 3300pF, ±10%, 500V
C418	24790100	EL, 10μF, ±20%, 160V
		CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C423	24232103	
C424	24795470	EL, 47μF, ±20%, 25V
C425	24794101	EL, 100μF, ±20%, 16V
<b>⚠</b> C440	24095888	PF, $0.01\mu$ F, $\pm 3\%$ , $1600$ V
C441	24214221	CD, 220pF, ±10%, 500V
C443	24214221	CD, 220pF, ±10%, 500V
C445	24095903	PF, $0.056\mu$ F, $\pm 10\%$ , 250V
		PF, 0.030μF, ±10 /8, 230 V PF, 0.027μF, 400 V
<b>↑</b> C446	24829273	• •
C447	24700479	EL, $4.7\mu$ F, $\pm 20\%$ , 250V
C448	24795102	EL, 1000μF, ±20%, 25V
C449	24794471	EL, 470μF, ±20%, 16V
C451	24640962	EL, $33\mu$ F, $\pm 20\%$ , $200$ V
<b>∆</b> C463	24212222	CD, 2200pF, ±10%
	24092346	CD, 1200pF, ±10%, 2kV
C464		
C465	24095946	PF, 0.43μF, 200V
C466	24640933	EL, 1μF, ±20%, 200V
C470	24212102	CD, 1000pF, ±10%
C502	24797100	EL, $10\mu$ F, $\pm 20\%$ , $50$ V
C503	24436101	CD, 100pF
C504	24436101	CD, 100pF
C505	24590273	PF, 0.027μF
	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C506		• •
C507	24590103	PF, 0.01μF
C508	24085944	EL, $2.2\mu$ F, $\pm 20\%$ , $50$ V,
		Non-Polar
C509	24797220	EL, $22\mu$ F, $\pm 20\%$ , $50V$
C510	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C511	24232103	CD, $0.01\mu\text{F}$ , $+80\%$ , $-20\%$
	24353200	CD, 20pF
C512		CD, 20pF CD, 33pF
C513	24353330	CD, SOPE
C515	24797220	EL, 22μF, ±20%, 50V
C516	24590104	PF, 0.1μF
C517	24590104	PF, 0.1μF
C518	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C519	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C520	24797478	EL, 0.47μF, ±20%, 50V
		PF, 0.47μF
C521	24538474	
C522	24538474	PF, 0.47μF
C523	24538474	PF, 0.47μF
C524	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C525	24436820	CD, 82pF
C526	24436820	CD, 82pF
C527	24436820	CD, 82pF
		•
C530	24796220	EL, 22μF, ±20%, 35V
C532	24436300	CD, 30pF
C533	24436330	CD, 33pF
		CD, 20pF
C534	24436200	
C534 C535	24436200 24636100	•
C535	24636100	EL, 10μF, 50V
		EL, 10μF, 50V

Location	Part No.	Description
No.		2000mption
C539	24232103	CD, 0.01μF, +80%, -20%
C540	24633100	EL, 10μF, 16V
C550	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C551	24212102	CD, 1000pF, ±10%
C601	24212102	CD, 1000pF, ±10%
C603	24232103	CD, 0.01μF, +80%, -20%
C604	24794470	EL, 47μF, ±20%, 16V
C605	24598911	PF, 910pF
C606	24598821	PF, 820pF
C607	24590104	PF, 0.1μF
C608	24797100	EL, 10μF, ±20%, 50V
C609	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
	24232103	CD, $0.01\mu\text{F}$ , $+80\%$ , $-20\%$
C610		
C611	24232103	CD, 0.01μF, +80%, -20%
C612	24436470	CD, 47pF
C613	24436470	CD, 47pF
C614	24232103	CD, 0.01µF, +80%, -20%
C615	24590473	PF, 0.047μF
C616	24590473	PF, 0.047μF
C617	24232103	CD, 0.01μF, +80%, -20%
C651	24590683	PF, 0.068μF
C653	24590683	PF, 0.068μF
C661	24085031	EL, 1μF, ±20%, 25V,
		Non-Polar
C664	24593102	PF, 1000pF
C665	24636229	EL, 2.2μF, 50V
C666	24636010	EL, 1μF, 50V
C667	24633470	EL, 47μF, 16V
C668	24085031	EL, 1μF, ±20%, 25V,
0000	2.00000	Non-Polar
C669	24232103	CD, 0.01μF, +80%, -20%
C671(U101)	24212102	CD, 1000pF, ±10%
C671(U903)	24797470	EL, 47μF, ±20%, 50V
C671(U903)	24633100	EL, 47μΓ, ±20 %, 50 V EL, 10μF, 16V
C672	24593100	PF, 1000pF
	24636010	
C674	24636010	EL, 1μF, 50V
C675		EL, 1μF, 50V
C676	24636010	EL, 1μF, 50V
C677	24795101	EL, 100μF, 25V
C678	24636229	EL, 2.2μF, 50V
C679	24795101	EL, 100μF, 25V
C680	24636229	EL, 2.2μF, 50V
C681	24795101	EL, 100μF, 25V
C683	24795470	EL, 47μF, ±20%, 25V
C684	24795471	EL, 470μF, ±20%, 25V
C685	24795102	EL, 1000μF, ±20%, 25V
C689	24795470	EL, 47μF, ±20%, 25V
C690	24795471	EL, 470μF, ±20%, 25V
C692	24636010	EL, 1μF, 50V
C693	24794100	EL, 10μF, ±20%, 16V
C699	24795470	EL, 47μF, ±20%, 25V
C801	24098999	PF, 0.1μF, ±20%, AC250V
C802	24098999	PF, 0.1μF, ±20%, AC250V
C805	24094656	CD, 2200pF, ±20%, AC400V
C806	24094656	CD, 2200pF, ±20%, AC400V
C815	24092281	CD, 4700pF, ±20%, AC250V
C816	24092281	CD, 4700pF, ±20%, AC250V
C817	24092281	CD, 4700pF, ±20%, AC250V
C817	24092281	CD, 4700pF, ±20%, AC250V
C820	24086856	EL, 270μF, ±20%, 400V
		CD, 100pF
C821	24436101	· · · · · · · · · · · · · · · · · · ·
C822	24797100	EL, 10μF, ±20%, 50V
C823	24590682	PF, 6800pF
C824	24630747	EL, 22μF, ±20%, 25V
		i i

Loca	ition	Part No.	Description
l N	0.	rait No.	Description
C825	5	24212102	CD, 1000pF, ±10%
C826	6	24092339	CD, 330pF, ±10%, 2kV
C82	_	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
C828		24095914	PF, 2200pF, ±3%, 1600V
C829		24797010	EL, 1μF, ±20%, 50V
C830		24797101	EL, 100μF, ±20%, 50V
1		24436331	CD, 330pF
C83		24430331	PF, 8200pF
C83			
C83		24092336	CD, 180pF, ±10%, 2kV
C83		24086939	EL, 330μF, ±20%, 200V
C83	5	24797220	EL, 22μF, ±20%, 50V
C83	6	24214331	CD, 330pF, ±10%, 500V
C83	7	24795222	EL, 2200μF, 25V
C90	1	24644479	EL, 4.7μF, 250V
C90	2	24095923	PF, 4700pF, 1600V
CA0		24212331	CD, 330pF, ±10%
CAO		24212102	CD, 1000pF, ±10%
CAO		24232103	CD, 0.01µF, +80%, -20%
1		24794470	EL, 47μF, ±20%, 16V
CAO			
CA1		24232103	CD, 0.01μF, +80%, -20%
CA1		24212472	CD, 4700pF, ±10%
CA1	2	24212561	CD, 560pF, ±10%
CA1	3	24794100	EL, 10μF, ±20%, 16V
CA1	4	24794470	EL, 47μF, ±20%, 16V
CA1	5 .	24232103	CD, 0.01μF, +80%, -20%
CA1		24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
CA1		24232103	CD, $0.01\mu F$ , $+80\%$ , $-20\%$
CA1		24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
CA1		24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
1		24797010	EL, 1μF, ±20%, 50V
CAZ			CD, 390pF
CA2		24436391	CD, 220pF
CA2		24436221	
CA2		24538104	PF, 0.1μF
CA2		24538104	PF, 0.1μF
CA2		24797229	EL, 2.2μF, ±20%, 50V
CA2	26	24232103	CD, 0.01µF, +80%, -20%
CA2	27	24590104	PF, 0.1μF
CA2	28	24538104	PF, 0.1μF
CA3	30	24797479	EL, 4.7μF, ±20%, 50V
CAS	31	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
CA3	32	24794471	EL, 470μF, ±20%, 16V
CAS	34	24212102	CD, 1000pF, ±10%
CAS		24590104	PF, 0.1μF
CA		24636479	EL, 4.7μF, 50V
CHO		24797010	EL, 1μF, ±20%, 50V
CHO		24797010	EL, 1μF, ±20%, 50V
CHO		24797010	EL, 1μF, ±20%, 50V
		24797010	EL, 1μF, ±20%, 50V
CHO			EL, 1μF, ±20%, 50V
CHO		24797010	EL, $1\mu$ F, $\pm 20\%$ , $50V$ EL, $1\mu$ F, $\pm 20\%$ , $50V$
CHO		24797010	
CHO		24797100	EL, 10μF, ±20%, 50V
CM		24436221	CD, 220pF
CM		24436221	CD, 220pF
CM	05	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
CM	06	24357270	CD, 27pF
CM	07	24590563	PF, 0.056μF
CM	08	24232103	CD, $0.01\mu$ F, $+80\%$ , $-20\%$
CM		24436270	CD, 27pF
CN		24436150	CD, 15pF
CN		24436360	CD, 36pF
CN		24232103	CD, 0.01μF, +80%, -20%
CN		24436101	CD, 100pF
		24353080	CD, 8pF, ±0.25pF
CN		24353060	CD, 22pF
CN	14	27000220	OD, 22p.
1			

Coation No.   Part No.   Description			
No.  CN13	Location	Part No.	Description
CN16 CN17 CN17 CN21 CN22 C4232103 CD, 0.01μF, +80%, -20% CN22 C4232103 CD, 0.01μF, +80%, -20% CN51 CN51 CV01 CV01 CV01 CV02 C4797229 EL, 2.2μF, ±20%, 50V CV02 CV03 CV33 CV04 CV05 CV05 CV06 C4797100 CV06 C4797100 CV07 CV07 CV08 C4797229 EL, 2.2μF, ±20%, 50V CV08 C4797100 CV07 CV08 C4797100 CV08 C4797100 CV10 CV10 CV10 CV10 CV10 CV10 CV10 C	No.	Tare 140.	Bescription
CN16 CN17 CN17 CN21 CN22 C4232103 CD, 0.01μF, +80%, -20% CN22 C4232103 CD, 0.01μF, +80%, -20% CN51 CN51 CV01 CV01 CV01 CV02 C4797229 EL, 2.2μF, ±20%, 50V CV02 CV03 CV33 CV04 CV05 CV05 CV06 C4797100 CV06 C4797100 CV07 CV07 CV08 C4797229 EL, 2.2μF, ±20%, 50V CV08 C4797100 CV07 CV08 C4797100 CV08 C4797100 CV10 CV10 CV10 CV10 CV10 CV10 CV10 C			
CN17	CN13		
CN20	CN16	24212102	
CN22 24232103 CD, 0.01μF, +80%, -20% CN51 24094859 Variable Capacitor, 2 to 12pF, 50V CV02 24797229 EL, 2.2μF, ±20%, 50V CV03 24797229 EL, 2.2μF, ±20%, 50V CV04 24797229 EL, 2.2μF, ±20%, 50V CV05 24797229 EL, 2.2μF, ±20%, 50V CV06 24797100 EL, 10μF, ±20%, 50V CV07 24797100 EL, 10μF, ±20%, 50V CV08 24797100 EL, 10μF, ±20%, 50V CV09 24797229 EL, 2.2μF, ±20%, 50V CV09 24797229 EL, 2.2μF, ±20%, 50V CV10 24797100 EL, 10μF, ±20%, 50V CV11 24797229 EL, 2.2μF, ±20%, 50V CV12 24797100 EL, 10μF, ±20%, 50V CV13 24797101 EL, 10μF, ±20%, 50V CV15 24797010 EL, 10μF, ±20%, 50V CV16 24232103 CD, 0.01μF, +80%, -20% CV17 24232103 CD, 0.01μF, +80%, -20% CV18 24794100 EL, 10μF, ±20%, 16V CV22 24794410 EL, 10μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24366124 CF, 120k ohm R103 2436622 CF, 2200 ohm R104 2436632 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 10k ohm R108 24366102 CF, 10k ohm R111 24366561 CF, 560 ohm R111 24366561 CF, 560 ohm R111 24366562 CF, 5600 ohm R111 24366661 CF, 560 ohm R111 2436661 CF, 560 ohm R111 2436631 CF, 100 ohm R116 24366471 CF, 470 ohm R117 2436611 CF, 100 ohm R116 2436631 CF, 330 ohm R116 2436631 CF, 330 ohm R122 24366331 CF, 330 ohm CR124 24366331 CF, 330 ohm CR125 24366331 CF, 330 ohm CR126 24366331 CF, 330 ohm CR126 24366331 CF, 330 ohm CR127 24366334 CF, 330 ohm CR127 24366334 CF, 330 ohm CR128 24366334 CF, 330 ohm CR128 24366334 CF, 330 ohm CF, 330 ohm	CN17	24212102	CD, 1000pF, ±10%
CN51	CN20	24232103	CD, 0.01μF, +80%, -20%
12pF, 50V   CV01   24797229   EL, 22μF, ±20%, 50V   CV03   24797229   EL, 22μF, ±20%, 50V   CV04   24797229   EL, 22μF, ±20%, 50V   CV04   24797229   EL, 22μF, ±20%, 50V   CV05   24797229   EL, 22μF, ±20%, 50V   CV06   24797100   EL, 10μF, ±20%, 50V   CV07   24797100   EL, 10μF, ±20%, 50V   CV08   24797229   EL, 22μF, ±20%, 50V   CV09   24797229   EL, 22μF, ±20%, 50V   CV10   24797100   EL, 10μF, ±20%, 50V   CV11   24797229   EL, 22μF, ±20%, 50V   CV11   24797229   EL, 22μF, ±20%, 50V   CV12   24797229   EL, 22μF, ±20%, 50V   CV13   24797100   EL, 10μF, ±20%, 50V   CV15   24797100   EL, 10μF, ±20%, 50V   CV16   24232103   CD, 0.01μF, ±80%, -20%   CV17   24232103   CD, 0.01μF, ±80%, -20%   CV18   24794100   EL, 10μF, ±20%, 16V   CV22   24794100   EL, 10μF, ±20%, 16V   CV24   24794471   EL, 470μF, ±20%, 16V   CV29   24085944   EL, 22μF, ±20%, 50V   Non-Polar   CV31   24794471   EL, 470μF, ±20%, 16V   CV29   24085944   EL, 22μF, ±20%, 50V   Non-Polar   EL, 470μF, ±20%, 16V   CV20   24538474   PF, 0.47μF   CX03   24538474   PF, 0.47μF   CX03   24538474   PF, 0.47μF   CX03   24538474   PF, 0.47μF   CX04   24366103   CF, 10k ohm   R103   24366222   CF, 2200 ohm   R104   24366332   CF, 3300 ohm   R105   24367103   CF, 10k ohm   £2%   CF, 120k ohm   R108   24366102   CF, 10k ohm   ER   CF, 10k ohm   ER   CF, 10k ohm   ER   CF, 10k ohm   R108   24366102   CF, 10k ohm   ER   CF, 10k o	CN22	24232103	CD, 0.01µF, +80%, -20%
12pF, 50V   CV01   24797229   EL, 22μF, ±20%, 50V   CV03   24797229   EL, 22μF, ±20%, 50V   CV04   24797229   EL, 22μF, ±20%, 50V   CV04   24797229   EL, 22μF, ±20%, 50V   CV05   24797229   EL, 22μF, ±20%, 50V   CV06   24797100   EL, 10μF, ±20%, 50V   CV07   24797100   EL, 10μF, ±20%, 50V   CV08   24797229   EL, 22μF, ±20%, 50V   CV09   24797229   EL, 22μF, ±20%, 50V   CV10   24797100   EL, 10μF, ±20%, 50V   CV11   24797229   EL, 22μF, ±20%, 50V   CV11   24797229   EL, 22μF, ±20%, 50V   CV12   24797229   EL, 22μF, ±20%, 50V   CV13   24797100   EL, 10μF, ±20%, 50V   CV15   24797100   EL, 10μF, ±20%, 50V   CV16   24232103   CD, 0.01μF, ±80%, -20%   CV17   24232103   CD, 0.01μF, ±80%, -20%   CV18   24794100   EL, 10μF, ±20%, 16V   CV22   24794100   EL, 10μF, ±20%, 16V   CV24   24794471   EL, 470μF, ±20%, 16V   CV29   24085944   EL, 22μF, ±20%, 50V   Non-Polar   CV31   24794471   EL, 470μF, ±20%, 16V   CV29   24085944   EL, 22μF, ±20%, 50V   Non-Polar   EL, 470μF, ±20%, 16V   CV20   24538474   PF, 0.47μF   CX03   24538474   PF, 0.47μF   CX03   24538474   PF, 0.47μF   CX03   24538474   PF, 0.47μF   CX04   24366103   CF, 10k ohm   R103   24366222   CF, 2200 ohm   R104   24366332   CF, 3300 ohm   R105   24367103   CF, 10k ohm   £2%   CF, 120k ohm   R108   24366102   CF, 10k ohm   ER   CF, 10k ohm   ER   CF, 10k ohm   ER   CF, 10k ohm   R108   24366102   CF, 10k ohm   ER   CF, 10k o	CN51	24094959	Variable Capacitor, 2 to
CV01 24797229 EL, 2.2μF, ±20%, 50V CV02 24797229 EL, 2.2μF, ±20%, 50V CV04 24797229 EL, 2.2μF, ±20%, 50V CV05 24797229 EL, 2.2μF, ±20%, 50V CV06 24797100 EL, 10μF, ±20%, 50V CV07 24797100 EL, 10μF, ±20%, 50V CV08 24797229 EL, 2.2μF, ±20%, 50V CV09 24797229 EL, 2.2μF, ±20%, 50V CV10 24797100 EL, 10μF, ±20%, 50V CV11 24797229 EL, 2.2μF, ±20%, 50V CV12 24797229 EL, 2.2μF, ±20%, 50V CV13 24797100 EL, 10μF, ±20%, 50V CV15 24797010 EL, 10μF, ±20%, 50V CV16 24232103 CD, 0.01μF, +80%, -20% CV17 24232103 CD, 0.01μF, +80%, -20% CV18 24794100 EL, 10μF, ±20%, 16V CV22 24794100 EL, 10μF, ±20%, 16V CV24 24794471 EL, 470μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CV31 24794471 EL, 470μF, ±20%, 16V CV29 24658474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 2456332 CF, 3300 ohm R102 24366124 CF, 120k ohm R103 24366322 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R107 24366103 CF, 10k ohm, ±2% R108 24366320 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 100 ohm R112 24366321 CF, 1100 ohm R113 24366111 CF, 1100 ohm R114 24366321 CF, 3300 ohm R115 24366111 CF, 1100 ohm R116 24366471 CF, 470 ohm R117 24366111 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366321 CF, 330 ohm R110 24366331 CF, 330 ohm R111 24366611 CF, 1100 ohm R112 24366331 CF, 330 ohm R113 24366111 CF, 1100 ohm R114 24366471 CF, 470 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366331 CF, 330 ohm R110 243666331 CF, 330 ohm R121 24366331 CF, 330 ohm R122 24366331 CF, 330 ohm R124 24366331 CF, 330 ohm R125 24366331 CF, 330 ohm R127 24552101 OMF, 100 ohm R127 2456101 CF, 100 ohm R127 2456334 CF, 330k ohm			12pF, 50V
CV02 24797229 EL, 2.2μF, ±20%, 50V CV03 24797220 EL, 22μF, ±20%, 50V CV04 24797229 EL, 2.2μF, ±20%, 50V CV05 24797229 EL, 2.2μF, ±20%, 50V CV06 24797100 EL, 10μF, ±20%, 50V CV07 24797100 EL, 10μF, ±20%, 50V CV08 24797229 EL, 2.2μF, ±20%, 50V CV08 24797229 EL, 2.2μF, ±20%, 50V CV09 24797229 EL, 2.2μF, ±20%, 50V CV10 24797100 EL, 10μF, ±20%, 50V CV11 24797229 EL, 2.2μF, ±20%, 50V CV11 24797229 EL, 2.2μF, ±20%, 50V CV12 24797229 EL, 2.2μF, ±20%, 50V CV13 24797100 EL, 10μF, ±20%, 50V CV16 2423103 CD, 0.01μF, ±80%, −20% CV17 24232103 CD, 0.01μF, ±80%, −20% CV18 24794100 EL, 10μF, ±20%, 16V CV22 247944100 EL, 10μF, ±20%, 16V CV24 24794401 EL, 10μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CV31 24794471 EL, 470μF, ±20%, 16V CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24366322 CF, 2200 ohm R102 24366124 CF, 120k ohm R102 2436634 CF, 3300 ohm R104 2436632 CF, 3300 ohm R105 24367103 CF, 10k ohm R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 2436632 CF, 3500 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 2436631 CF, 10k ohm R113 2436611 CF, 100 ohm R114 2436631 CF, 100 ohm R15 2436611 CF, 100 ohm R115 24366471 CF, 470 ohm R116 2436647 CF, 470 ohm R117 2436610 CF, 470 ohm R118 24366410 CF, 470 ohm R119 2436631 CF, 330 ohm R110 CF, 100 ohm R110 CF, 100 ohm R111 CF, 100 ohm R112 CF, 1100 ohm R112 CF, 1100 ohm R113 CF, 1100 ohm R114 CF, 120 ohm R15 CF, 130 ohm R115 CF, 1100 ohm R116 CF, 100 ohm R117 CF, 1100 ohm R117 CF, 1100 ohm R118 CF, 1100 ohm R119 CF, 1100 ohm R110 CF, 100 ohm R111 CF, 1100 ohm R127 CF, 4366331 CF, 330 ohm R122 CF, 3300 ohm R124 CF, 4366331 CF, 330 ohm R125 CF, 3300 ohm R126 CF, 450 ohm R127 CF, 450 ohm R127 CF, 450 ohm R127 CF, 450 ohm R128 CF, 4366331 CF, 330 ohm R129 CF, 3300 ohm CF, 100 ohm R120 CF, 400 ohm R121 CF, 1100 ohm R122 CF, 4366331 CF, 330 ohm R122 CF, 4366331 CF, 330 ohm R122 CF, 4366331 CF, 330 ohm R123 CF, 3300 ohm CF, 100 ohm R124 CF, 450 ohm R127 CF, 450 ohm R128 CF, 450 ohm	CV01	24797229	
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CV11 24797229 EL, 2.2μF, ±20%, 50V CV12 24797229 EL, 2.2μF, ±20%, 50V CV13 24797100 EL, 10μF, ±20%, 50V CV15 24797010 EL, 1μF, ±20%, 50V CV16 24232103 CD, 0.01μF, +80%, -20% CV17 24232103 CD, 0.01μF, +80%, -20% CV18 24794100 EL, 10μF, ±20%, 16V CV22 24794100 EL, 10μF, ±20%, 16V CV27 24794101 EL, 10μF, ±20%, 16V CV27 24794101 EL, 10μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CV31 24794471 EL, 470μF, ±20%, 16V CV29 24538474 PF, 0.47μF CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX05 24366102 CF, 120k ohm R102 24366124 CF, 120k ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367103 CF, 10k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 18 ohm R109 24366822 CF, 8200 ohm R101 24366561 CF, 560 ohm R111 24366561 CF, 560 ohm R112 24366322 CF, 3300 ohm R114 24366511 CF, 100 ohm R115 24366112 CF, 1100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366471 CF, 470 ohm R119 24366471 CF, 470 ohm R119 24366471 CF, 470 ohm R119 24366471 CF, 470 ohm R111 2436651 CF, 150k ohm R112 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R121 24366331 CF, 330 ohm R122 24366831 CF, 180 ohm R123 2436611 CF, 150k ohm R124 24366331 CF, 330 ohm R125 24366101 CF, 100 ohm R127 24366101 CF, 100 ohm R126 24366101 CF, 100 ohm R127 24366101 CF, 100 ohm R127 24366334 CF, 330k ohm	ł .		
CV12 24797229 EL, $2.2\mu$ F, $\pm 20\%$ , 50V CV13 24797100 EL, $10\mu$ F, $\pm 20\%$ , 50V CV16 24232103 CD, $0.01\mu$ F, $\pm 80\%$ , $-20\%$ CV17 24232103 CD, $0.01\mu$ F, $\pm 80\%$ , $-20\%$ CV17 24232103 EL, $10\mu$ F, $\pm 20\%$ , 16V CV18 24794100 EL, $10\mu$ F, $\pm 20\%$ , 16V CV22 24794100 EL, $10\mu$ F, $\pm 20\%$ , 16V CV24 24794471 EL, $470\mu$ F, $\pm 20\%$ , 16V CV29 24085944 EL, $2.2\mu$ F, $\pm 20\%$ , 50V, Non-Polar CX02 24538474 PF, $0.47\mu$ F CX02 24538474 PF, $0.47\mu$ F CX03 24538474 PF, $0.47\mu$ F CX04 24366124 CF, $120k$ hm R103 24366222 CF, 2200 ohm R102 24366124 CF, $120k$ ohm R105 24367103 CF, $10k$ ohm R108 24366103 CF, $10k$ ohm R108 24366102 CF, $10k$ ohm R110 24366561 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R112 24366332 CF, $3300$ ohm R111 24366561 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R112 24366332 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R112 24366332 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R112 24366332 CF, $10k$ ohm R111 24366561 CF, $10k$ ohm R112 24366310 CF, $10k$ ohm R112 $10k$ ohm R112 $10k$ ohm R112 $10k$ ohm R112 $10k$ ohm R113 $10k$ ohm R114 $10k$ ohm R115 $10k$ ohm R115 $10k$ ohm R116 $10k$ ohm R116 $10k$ ohm R117 $10k$ ohm R118 $10k$ ohm R119 $10k$ ohm R119 $10k$ ohm R119 $10k$ ohm R110 CF, $10k$ ohm R111 $10k$ ohm R112 CF, $10k$ ohm R112 $10k$ ohm R112 CF, $10k$ ohm R112 $10k$ ohm R112 CF, $10k$ ohm R112 $10k$ ohm R115 $10k$ ohm R116 $10k$ ohm R117 $10k$ ohm R117 $10k$ ohm R118 $10k$ ohm R119 $10k$ ohm R119 $10k$ ohm R119 $10k$ ohm R110 CF, $10k$ ohm R111 $10k$ ohm R112 $10k$ ohm R122 $10k$ ohm R122 $10k$ ohm R121 $10k$ ohm R122 $10k$ ohm R123 $10k$ ohm R124 $10k$ ohm R125 $10k$ ohm R126 $10k$ ohm R127 $10k$ ohm R127 $10k$ ohm R128 $10k$ ohm CF, $10k$ ohm R127 $10k$ ohm CF, $10k$ ohm R128 $10k$ ohm CF, $10k$ ohm C			
CV13	1		
CV15 CV16 CV16 CV16 CV17 CV2432103 CD, 0.01μF, +80%, -20% CV17 CV223103 CD, 0.01μF, ±20%, 16V CV24 CV18 CV24 CV24 CV24 CV24 CV24 CV24 CV27 CV26 CV27 CV27 CV27 CV27 CV28 CV29 CV28 CV29 CV38 CV31 CV31 CV31 CV32 CV31 CV31 CV32 CV34 CV34 CV34 CV34 CV34 CV34 CV34 CV34	CV12	24797229	
CV16 CV17 CV17 CV18 CV17 CV18 CV17 CV23 CV18 CV18 CV24 CV29 CV24 CV24 CV24 CV24 CV24 CV27 CV24 CV27 CV24 CV29 CV29 CV29 CV29 CV29 CV29 CV39 CV29 CV3085944 CV29 CV31 CV31 CV31 CX32 CV33 CV31 CX33 CV31 CX34 CX34 CX34 CX34 CX34 CX34 CX34 CX34	CV13	24797100	
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CV18 CV22 24794100 EL, 10μF, ±20%, 16V CV24 24794471 EL, 470μF, ±20%, 16V CV27 24794100 EL, 10μF, ±20%, 16V CV27 24794100 EL, 10μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CV31 24794471 EL, 470μF, ±20%, 16V CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24568122 CF, 2200 ohm R102 R102 R103 24366222 CF, 2200 ohm R104 R2436632 CF, 3300 ohm R105 R106 24367473 CF, 47k ohm, ±2% R107 R24366103 CF, 10k ohm R108 R109 24366822 CF, 3200 ohm R100 R100 R101 CF, 10k ohm R102 R102 R103 CF, 10k ohm R104 R105 R106 R107 R107 R108 R108 R108 R109 R109 R110 R110 R110 R110 R111 R111	CV16	24232103	CD, 0.01µF, +80%, -20%
CV22 24794100 EL, 10μF, ±20%, 16V CV24 24794471 EL, 470μF, ±20%, 16V CV27 24794100 EL, 10μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CV31 24794471 EL, 470μF, ±20%, 16V CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24566222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 2436622 CF, 2200 ohm R115 2436611 CF, 100 ohm R116 24366471 CF, 470 ohm R117 2436611 CF, 170 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 2436612 CF, 510k ohm R119 24366470 CF, 470 ohm R119 2436631 CF, 330 ohm R120 2436612 CF, 550k ohm R121 2436631 CF, 150k ohm R121 2436631 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 2436631 CF, 330 ohm R125 2436631 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	CV17	24232103	CD, 0.01μF, +80%, -20%
CV22 24794100 EL, 10μF, ±20%, 16V CV24 24794471 EL, 470μF, ±20%, 16V CV27 24794100 EL, 10μF, ±20%, 16V CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar CV31 24794471 EL, 470μF, ±20%, 16V CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24566222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 2436622 CF, 2200 ohm R115 2436611 CF, 100 ohm R116 24366471 CF, 470 ohm R117 2436611 CF, 170 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 2436612 CF, 510k ohm R119 24366470 CF, 470 ohm R119 2436631 CF, 330 ohm R120 2436612 CF, 550k ohm R121 2436631 CF, 150k ohm R121 2436631 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 2436631 CF, 330 ohm R125 2436631 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	CV18	24794100	EL, 10μF, ±20%, 16V
CV24	CV22	24794100	
CV27 CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar  CV31 24794471 EL, 470μF, ±20%, 16V CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF  CX04 24538474 PF, 0.47μF  CX04 24538474 PF, 0.47μF  RESISTORS  R101 R102 R102 R103 R104 R103 R104 R105 R105 R106 R106 R107 R106 R107 R107 R108 R108 R109 R108 R109 R109 R109 R109 R110 R110 R111 R111	CV24	24794471	
CV29 24085944 EL, 2.2μF, ±20%, 50V, Non-Polar  CV31 24794471 EL, 470μF, ±20%, 16V  CX02 24538474 PF, 0.47μF  CX03 24538474 PF, 0.47μF  CX04 24538474 PF, 0.47μF  CX04 24538474 PF, 0.47μF  RESISTORS  R101 24366222 CF, 2200 ohm  R102 24366124 CF, 120k ohm  R103 24366222 CF, 2200 ohm  R104 24366332 CF, 3300 ohm  R105 24367103 CF, 10k ohm, ±2%  R106 24367473 CF, 47k ohm, ±2%  R107 24366103 CF, 10k ohm  R108 24366302 CF, 8200 ohm  R109 24366502 CF, 8200 ohm  R110 24366561 CF, 5600 ohm  R111 24366561 CF, 5600 ohm  R112 24366332 CF, 3300 ohm  R113 24366112 CF, 1100 ohm  R114 24366222 CF, 2200 ohm  R115 24366101 CF, 100 ohm  R116 24366471 CF, 470 ohm  R117 24366112 CF, 1100 ohm  R118 24366470 CF, 47 ohm  R119 24366471 CF, 470 ohm  R119 24366472 CF, 4700 ohm  R119 24366474 CF, 470 ohm  R110 24366331 CF, 330 ohm  R121 2436631 CF, 330 ohm  R122 24366820 CF, 82 ohm  R123 24366241 CF, 240 ohm  R124 24366181 CF, 180 ohm  R125 24366331 CF, 330 ohm  R126 24366101 CF, 100 ohm  R127 24552101 OMF, 100 ohm, 1/2W  R128 24366334 CF, 330k ohm	1		· · · · · · · · · · · · · · · · · · ·
Non-Polar	1		
CV31 24794471 EL, 470μF, ±20%, 16V CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF  RESISTORS  R101 24366222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 5600 ohm R112 24366332 CF, 3300 ohm R114 24366561 CF, 560 ohm R115 24366112 CF, 1100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366471 CF, 470 ohm R119 24366472 CF, 470 ohm R119 24366470 CF, 47 ohm R119 24366470 CF, 47 ohm R119 24366331 CF, 330 ohm R120 24366154 CF, 150k ohm R121 2436631 CF, 330 ohm R122 2436630 CF, 82 ohm R123 2436620 CF, 82 ohm R124 24366181 CF, 150k ohm R125 2436631 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	"""		
CX02 24538474 PF, 0.47μF CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF  RESISTORS  R101 24366222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R114 2436622 CF, 2200 ohm R115 24366112 CF, 1100 ohm R116 24366471 CF, 100 ohm R117 24366112 CF, 1100 ohm R118 24366471 CF, 470 ohm R119 24366470 CF, 47 ohm R119 24366470 CF, 47 ohm R119 24366331 CF, 330 ohm R120 24366154 CF, 150k ohm R121 2436631 CF, 330 ohm R122 2436631 CF, 330 ohm R124 24366181 CF, 330 ohm R125 2436610 CF, 180 ohm R126 2436610 CF, 180 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	CV31	24794471	
CX03 24538474 PF, 0.47μF CX04 24538474 PF, 0.47μF  RESISTORS  R101 24366222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366322 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 10k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R114 2436631 CF, 1100 ohm R115 24366112 CF, 1100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366470 CF, 47 ohm R119 24366470 CF, 47 ohm R119 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R110 24366331 CF, 330 ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 2436641 CF, 150k ohm R124 2436631 CF, 330 ohm R125 2436631 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	I		
RESISTORS  R101	1		
RESISTORS  R101	I		
R101 24366222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366822 CF, 8200 ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 24366331 CF, 330 ohm R120 24366331 CF, 330 ohm R121 24366331 CF, 330 ohm R122 24366331 CF, 330 ohm R124 2436611 CF, 180 ohm R125 2436631 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24366101 CF, 100 ohm R127 2436631 CF, 330 ohm R128 24366334 CF, 330k ohm	L C A U 4	24030474	$\Gamma \Gamma$ , $0.47\mu\Gamma$
R101 24366222 CF, 2200 ohm R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366822 CF, 8200 ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 24366331 CF, 330 ohm R120 24366331 CF, 330 ohm R121 24366331 CF, 330 ohm R122 24366331 CF, 330 ohm R124 2436611 CF, 180 ohm R125 2436631 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24366101 CF, 100 ohm R127 2436631 CF, 330 ohm R128 24366334 CF, 330k ohm	PESISTORS		
R102 24366124 CF, 120k ohm R103 24366222 CF, 2200 ohm R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366822 CF, 8200 ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 24366331 CF, 330 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 2436631 CF, 330 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24366310 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	i .	2420022	CE 2200 alam
R103	i .		· · · · · · · · · · · · · · · · · · ·
R104 24366332 CF, 3300 ohm R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 24366470 CF, 4700 ohm R119 24366331 CF, 330 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366311 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	1		
R105 24367103 CF, 10k ohm, ±2% R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366220 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 470 ohm R119 24366470 CF, 4700 ohm R119 24366331 CF, 330 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 2436631 CF, 330 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	1		
R106 24367473 CF, 47k ohm, ±2% R107 24366103 CF, 10k ohm R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 470 ohm R119 24366470 CF, 4700 ohm R119 24366470 CF, 4700 ohm R119 24366331 CF, 330 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366111 CF, 180 ohm R125 24366311 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			
R107       24366103       CF, 10k ohm         R108       24366102       CF, 1k ohm         R109       24366822       CF, 8200 ohm         R110       24366562       CF, 5600 ohm         R111       24366561       CF, 560 ohm         R112       24366332       CF, 3300 ohm         R113       24366112       CF, 1100 ohm         R114       24366222       CF, 2200 ohm         R115       24366101       CF, 100 ohm         R116       24366471       CF, 470 ohm         R117       24366112       CF, 1100 ohm         R118       24366470       CF, 47 ohm         R119       24366472       CF, 4700 ohm         R120       24366154       CF, 150k ohm         R121       24366331       CF, 330 ohm         R122       24366820       CF, 82 ohm         R123       24366241       CF, 240 ohm         R124       24366181       CF, 180 ohm         R125       24366331       CF, 330 ohm         R126       24366101       CF, 100 ohm         R127       24552101       OMF, 100 ohm, 1/2W         R128       24366334       CF, 330k ohm			*
R108 24366102 CF, 1k ohm R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366470 CF, 47 ohm R119 24366154 CF, 150k ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	_		CF, 47k ohm, ±2%
R109 24366822 CF, 8200 ohm R110 24366562 CF, 5600 ohm R111 24366561 CF, 560 ohm R112 24366332 CF, 3300 ohm R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366470 CF, 47 ohm R119 24366154 CF, 150k ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			
R110       24366562       CF, 5600 ohm         R111       24366561       CF, 560 ohm         R112       24366332       CF, 3300 ohm         R113       24366112       CF, 1100 ohm         R114       24366222       CF, 2200 ohm         R115       24366101       CF, 100 ohm         R116       24366471       CF, 470 ohm         R117       24366112       CF, 1100 ohm         R118       24366470       CF, 47 ohm         R119       24366472       CF, 4700 ohm         R120       24366154       CF, 150k ohm         R121       24366331       CF, 330 ohm         R122       24366820       CF, 82 ohm         R123       24366241       CF, 240 ohm         R124       24366181       CF, 180 ohm         R125       2436631       CF, 330 ohm         R126       24366101       CF, 100 ohm         R127       24552101       OMF, 100 ohm, 1/2W         R128       24366334       CF, 330k ohm			
R111       24366561       CF, 560 ohm         R112       24366332       CF, 3300 ohm         R113       24366112       CF, 1100 ohm         R114       24366222       CF, 2200 ohm         R115       24366101       CF, 100 ohm         R116       24366471       CF, 470 ohm         R117       24366112       CF, 1100 ohm         R118       24366470       CF, 47 ohm         R119       24366472       CF, 4700 ohm         R120       24366154       CF, 150k ohm         R121       24366331       CF, 330 ohm         R122       24366820       CF, 82 ohm         R123       24366241       CF, 240 ohm         R124       24366181       CF, 180 ohm         R125       24366331       CF, 330 ohm         R126       24366101       CF, 100 ohm         R127       24552101       OMF, 100 ohm, 1/2W         R128       24366334       CF, 330k ohm			-
R112       24366332       CF, 3300 ohm         R113       24366112       CF, 1100 ohm         R114       24366222       CF, 2200 ohm         R115       24366101       CF, 100 ohm         R116       24366471       CF, 470 ohm         R117       24366112       CF, 1100 ohm         R118       24366470       CF, 47 ohm         R119       24366472       CF, 4700 ohm         R120       24366154       CF, 150k ohm         R121       24366331       CF, 330 ohm         R122       24366820       CF, 82 ohm         R123       24366241       CF, 240 ohm         R124       24366181       CF, 180 ohm         R125       24366331       CF, 330 ohm         R126       24366101       CF, 100 ohm         R127       24552101       OMF, 100 ohm, 1/2W         R128       24366334       CF, 330k ohm	t .	24366562	
R113 24366112 CF, 1100 ohm R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	R111	24366561	
R114 24366222 CF, 2200 ohm R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	R112	24366332	•
R115 24366101 CF, 100 ohm R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	R113	24366112	CF, 1100 ohm
R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	R114	24366222	CF, 2200 ohm
R116 24366471 CF, 470 ohm R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	R115	24366101	CF, 100 ohm
R117 24366112 CF, 1100 ohm R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	1		•
R118 24366470 CF, 47 ohm R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			CF. 1100 ohm
R119 24366472 CF, 4700 ohm R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			-
R120 24366154 CF, 150k ohm R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			- •
R121 24366331 CF, 330 ohm R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			-
R122 24366820 CF, 82 ohm R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	ì		-
R123 24366241 CF, 240 ohm R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	1		
R124 24366181 CF, 180 ohm R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	1		-
R125 24366331 CF, 330 ohm R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			-
R126 24366101 CF, 100 ohm R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm			•
R127 24552101 OMF, 100 ohm, 1/2W R128 24366334 CF, 330k ohm	1		
R128 24366334 CF, 330k ohm	1		
K129 24366101 CF, 100 ohm	1		
1	K129	24366101	Cr, 100 onm

Location No.	Part No.	Description
R130	24366513	CF, 51k ohm
R131	24366753	CF, 75k ohm
R132	24366684	
R133	24366272	CF, 2700 ohm
R134	24366223	CF, 22k ohm
R135	24366151	CF, 150 ohm
R151	24066953	VR, 5k ohm, 1/10W
R152	24066951	VM, ZUK OHIN, I/TUVV
R153	24066946	VR, 1M ohm, 1/10W
R160	24366680	CF, 68 ohm
R161	24366680	CF, 68 ohm
R163	24366682	
R164	24366102	CF, 1k ohm
R165	24366562	CF, 5600 ohm
R166	24366560	
R167	24552101	OMF, 100 ohm, 1/2W
R168	24366680	CF, 68 ohm
R169	24366682	CF, 6800 ohm
R170	24366102	CF, 1k ohm
R171	24366562	CF, 5600 ohm
R172	24366101	CF, 100 ohm
R173	24552101	OMF, 100 ohm, 1/2W
R183	24366562	CF, 5600 ohm
R184	24366122	CF, 1200 ohm
R185	24366562	CF, 5600 ohm
R186	24366560	CF, 56 ohm
R187	24552101	OMF, 100 ohm, 1/2W
R201	24366271	CF, 270 ohm
R202	24366101	CF, 100 ohm
R203	24366182	CF, 1800 ohm
R204	24366152	CF, 1500 ohm
R205	24366392	CF, 3900 ohm
R208	24366101	
R209	24366103	CF, 10k ohm
R210	24366203	•
R211	24366622	· · · · · · · · · · · · · · · · · · ·
R212	24366103	CF, 10k ohm
R213	24366101	CF, 100 ohm
R214	24366182	CF, 1800 ohm
R215	24366152	CF, 1500 ohm
R216	24366333	CF, 33k ohm
R217	24366101	CF, 100 ohm
R218	24366472	CF, 4700 ohm
R219	24366472	CF, 4700 ohm
R220	24366753	CF, 75k ohm
R221	24366564	CF, 560k ohm
R222	24366751	CF, 750 ohm
R223	24366103	CF, 10k ohm
R224	24366333	CF, 33k ohm
R225	24366132	CF, 1300 ohm
R226	24366104	CF, 100k ohm
R227	24366105	CF, 1M ohm
R228	24366104	CF, 100k ohm
R229	24366303	CF, 30k ohm
R230	24366102	CF, 1k ohm
R231	24366103	CF, 10k ohm
R232	24366473	CF, 47k ohm
R233	24366102	CF, 1k ohm
R234	24366223	CF, 22k ohm
R235	24366473	CF, 47k ohm
R236	24366103	CF, 10k ohm
R237	24366224	CF, 220k ohm
	24366224 24366101 24366912	CF, 220k 0hm CF, 100 ohm CF, 9100 ohm

Location	Part No.	Description
No.	Tait NO.	Description
R243	24366183	CF, 18k ohm
R244	24366103	CF, 10k ohm
R245	24366103	CF, 10k ohm
R252	24066598	VR, 2k ohm, 1/10W
R253	24066598	VR, 2k ohm, 1/10W
R255	24066601	VR, 20k ohm, 1/10W
R301	24366301	CF, 300 ohm
R302	24366244	CF, 240k ohm
R303	24366203	CF, 20k ohm
R304	24366102	CF, 1k ohm
R305	24366161	CF, 160 ohm
R306	24366471	CF, 470 ohm
R309	24366102	CF, 1k ohm
R311	24552242	OMF, 2400 ohm, 1/2W
R312	24366203	CF, 20k ohm
R316	24552561	OMF, 560 ohm, 1/2W
A R317	24383271	OMF, 270 ohm, 2W
R318	24366203	CF, 20k ohm
R321	24366183	CF, 18k ohm CF, 750k ohm
R322 R323	24366754	OMF, 0.82 ohm, 1W
	24322828	· · · · · · · · · · · · · · · · · · ·
R325	24552122 24556309	OMF, 1200 ohm, 1/2W FR, 3.0 ohm, ±10%, 1/2W
A R327	24322479	OMF, 4.7 ohm, ± 10%, 1/2w
R328	24322479 24381472	OMF, 4.7 onm, 1vv
R329 R333	24366471	CF, 470 ohm
R335	24552561	OMF, 560 ohm, 1/2W
R351	24066602	VR, 50k ohm, 1/10W
R356	24066926	VR, 50k ohm, 1/10W VR, 10k ohm, 1/10W
R357	24066926	VR, 10k onm, 1/10W
R358	24066921	VR, 500k onm, 1/10W VR, 2k ohm, 1/10W
R361	24367243	CF, 24k ohm, ±2%
R362	24367243	CF, 24k onm, ±2% CF, 560 ohm, ±2%
R363	24367223	CF, 22k ohm, ±2%
R364	24366823	CF, 82k ohm
R366	24366473	CF, 47k ohm
R367	24366104	CF, 100k ohm
R369	24552682	OMF, 6800 ohm, 1/2W
R370	24366682	CF, 6800 ohm
R371	24367243	CF, 24k ohm, ±2%
R372	24003984	MF, 1k ohm, 1/4W
R375	24366182	CF, 1800 ohm
R376	24366102	CF, 1k ohm
R377	24366184	CF, 180k ohm
R378	24366364	CF, 360k ohm
R380	24366153	CF, 15k ohm
R384	24366103	CF, 10k ohm
R386	24322479	OMF, 4.7 ohm, 1W
R387	24366474	CF, 470k ohm
R390	24366155	CF, 1.5M ohm
R391	24366155	CF, 1.5M ohm
R402	24366273	CF, 27k ohm
R403	24366302	CF, 3k ohm
R404	24381432	OMF, 4300 ohm, 1/2W
R405	24366511	CF, 510 ohm
R407	24366201	CF, 200 ohm
R408	24366682	CF, 6800 ohm
R411	24366361	CF, 360 ohm
R412	24366221	CF, 220 ohm
<b>⚠</b> R416	24007620	Cement, 4300 ohm, 5W
R418	24382432	OMF, 4300 ohm, 1W
R419	24366510	CF, 51 ohm
R420	24553102	OMF, 1k ohm, 1W
R421	24366105	

Location No.	Part No.	Description
D422	04550001	OME 220 abm 1/2W
R423	24552221	•
R440	24376243	
R441	24552103	OMF, 10k ohm, 1/2W
R446	24532151	
<b>⚠ R448</b>	24984279	
R451	24066601	VR, 20k ohm, 1/10W
R452	24069547	VR, 5k ohm, 0.08W, CC
R501	24366821	CF, 820 ohm
R502	24366334	
R503	24366202	CF, 2k ohm
R504		CF, 390 ohm
R505	24366822	CF, 8200 ohm
R507		CF, 8200 ohm
1		
R508		CF, 820 ohm
R509	24366203	CF, 20k ohm
R510		CF, 100 ohm
R511		CF, 5600 ohm
R512	24366152	CF, 1500 ohm
R513		CF, 1500 ohm
<b>R</b> 515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R521		CF, 5600 ohm
R522	24360185	CF, 1.8M ohm, 1/8W
R523		CF, 1k ohm
1		
R524	24366103	
R525	24366103	CF, 10k ohm
R526	24366122	CF, 1200 ohm
R527	24366122	CF, 1200 ohm
<u></u> <b>R R 5</b> 29	24007642	Cement, 5600 ohm, 5W
R531	24366102	•
R532	24366302	CF, 3k ohm
R533	24366132	CF, 1300 ohm
R534	24376104	CF, 100k ohm, 1/2W
R535	24376104	CF, 3900 ohm
R536	24376104	CF, 100k ohm, 1/2W
R537	24366132	CF, 1300 ohm
R538		
R539	24366392 24366132	CF, 1300 ohm
R540		CF, 100k ohm, 1/2W
R541	24366821	
		CF, 820 0mm
R542		
R543	24366512	CF, 5100 ohm
R544	24366101	CF, 100 ohm
R545	24366101	CF, 100 ohm
R547	24366471	CF, 470 ohm
R548	24366471	CF, 470 ohm
R549	24366471	CF, 470 ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24066598	VR, 2k ohm, 1/10W
R558	24066598	VR, 2k ohm, 1/10W
R559	24066598	VR, 2k ohm, 1/10W
R564	24366101	CF, 100 ohm
R565	24366101	CF, 100 ohm
R567	24366101	CF, 100 ohm
	24366912	CF, 9100 ohm
R570		*
R571	24366912	CF, 9100 ohm
R572	24366912	CF, 9100 ohm
R573	24366104	CF, 100k ohm
⚠ R591	24383153	OMF, 15k ohm, 2W
<b>⚠</b> R592	24383153	OMF, 15k ohm, 2W
⚠ R593	24383153	OMF, 15k ohm, 2W
R601	24366222	CF, 2200 ohm
R <b>6</b> 02	24366561	CF, 560 ohm

Location		
No.	Part No.	Description
INO.		
R603	24366222	CF, 2200 ohm
R604	24366563	
R605	24366563	
R606	24366102	CF, 1k ohm
R607	24366102	CF, 1k ohm
R609	24366102	
R610	24366102	
R611	24366102	CF, 1k ohm
R615	24366102	
R625	24366102	CF, 1k ohm
R626	24366102	CF, 1k ohm
R627	24366103	
R628	24366473	
R629	24366105	CF, 1M ohm
R630	24366105	CF, 1M ohm
R631	24366562	CF, 5600 ohm
R632	24366223	CF, 22k ohm
R633	24366472	CF, 4700 ohm
R634	24366682	
R635	24366103	CF, 10k ohm
R637	24366182	CF, 1800 ohm
R638	24366102	CF, 1k ohm
R640	24366103	CF, 10k ohm
R642	24366103	CF, 10k ohm
R650	24366332	
R653	24366682	CF, 6800 ohm
R654	24366682	CF, 6800 ohm
R660	24366332	•
R661	24366103	CF, 10k ohm
R662	24366102	CF, 1k ohm
R663	24366103	CF, 10k ohm
R664	24366472	CF, 4700 ohm
R665	24366103	CF, 10k ohm
R666	24366223	CF, 22k ohm
R667	24366103	CF, 10k ohm
R668	24366562	CF, 5600 ohm
R669	24366562	CF, 5600 ohm
R670(U101)	24366183	CF. 18k ohm
R670(U903)	24366154	CF, 150k ohm
R671(U101)		CF, 2400 ohm
R671(U903)	24366154	
R672(U101)		CF, 560 ohm
R672(U903)	24366472	CF, 4700 ohm
R673(U101)	24366271	CF, 270 ohm
R673(U903)	24366223	CF, 22k ohm
R674	24366821	CF, 820 ohm
R675(U101)	24366821	CF, 820 ohm
R675(U903)	24366104	CF, 100k ohm
R676	24366473	CF, 47k ohm
R677	24366473	CF, 47k ohm
R678	24366104	CF, 100k ohm
R679	24366821	CF, 820 ohm
R680	24366223	CF, 22k ohm
R681	24366229	CF, 2.2 ohm
R682	24366229	CF, 2.2 ohm
R683	24322159	OMF, 1.5 ohm, 1W
R684	24552331	OMF, 330 ohm, 1/2W
R685	24552331	OMF, 330 ohm, 1/2W
R687	24366683	CF, 68k ohm
R690	24366273	CF, 27k ohm
R699	24366332	CF, 3300 ohm
R801	24004914	CC, 5.6M ohm, 1/2W
<u></u> <b>№</b> R802	24007932	Cement, 6.2 ohm, 10W
R810	24377334	CF, 330k ohm, 1W

Location No.	Part No.	Description
R814	24366823	CF, 82k ohm
R815	24366221	CF, 220 ohm
R816		CF, 1200 ohm, ±2%
R817	24321398	
	24384203	OMF, 20k ohm, 3W
<u>↑</u> R818	24304203	CF, 6.8 ohm
R819		
R820		CF, 1k ohm
<u> </u>	24007778	Cement, 180 ohm, 7W CF, 39 ohm
R822		
R823	24367822	CF, 8200 ohm, ±2%
R824	24366123	CF, 12k ohm
<u>∧</u> R825		FR, 62 ohm, 1/2W
<b>↑ R826</b>	24007552	Cement, 8200 ohm, 5W
R828	24367102	CF, 1k ohm, $\pm 2\%$
R829	24382473	OMF, 47k ohm, 1W
R830	24366272	
R831	24366103	CF, 10k ohm
∧ R832	24383331	
	24004945	
R836		FR, 0.47 ohm, ±10%, 1W
<u>∧</u> R837	24000900	
R838	24366392	
R851	24066954	
<u>∧</u> R890	24000630	PTC Thermistor, Dual
R901	24946272	CC, 2700 ohm, ±10%, 1/2W
R902	24946272	CC, 2700 ohm, ±10%, 1/2W
R903	24946272	CC, 2700 ohm, ±10%, 1/2W
∕∧ R920	24000961	FR, 2.2 ohm, 2W
RA01	24366102	CF, 1k ohm
RA02	24366102	CF, 1k ohm
RA04	24366681	
	24366101	CF, 100 ohm
RA05		CF, 100 ohm
RA06	24366101	•
RA07	24366101	
RA08	24366102	CF, 1k ohm
RA09	24366103	CF, 10k ohm
RA10	24366102	•
RA11	24366472	CF, 4700 ohm
RA12	24366102	CF, 1k ohm
RA13	24366472	CF, 4700 ohm
RA14	24366102	CF, 1k ohm
RA17	24366102	CF, 1k ohm
RA19	24366103	CF, 10k ohm
RA20	24366102	CF, 1k ohm
	24366102	CF, 1k ohm
RA21	24366103	CF, 10k ohm
RA22		CF, 470 ohm
RA23	24366471	CF, 1k ohm
RA24	24366102	
RA25	24366103	CF, 10k ohm
RA27	24366392	CF, 3900 ohm
RA28	24366471	CF, 470 ohm
RA30	24366271	CF, 270 ohm
RA31	24366102	CF, 1k ohm
RA33	24366103	CF, 10k ohm
RA35	24366103	CF, 10k ohm
RA36	24366102	CF, 1k ohm
RA37	24366102	CF, 1k ohm
RA38	24366153	CF, 15k ohm
	24366153	CF, 15k ohm
	24366473	CF, 47k ohm
RA39	/4.1nn4/.1	The state of the s
RA40		
RA40 RA41	24366153	CF, 15k ohm
RA40 RA41 RA42	24366153 24366473	CF, 47k ohm
RA40 RA41 RA42 RA43	24366153 24366473 24366153	CF, 47k ohm CF, 15k ohm
RA40 RA41 RA42	24366153 24366473	CF, 47k ohm

r		
Location	Part No.	Description
No.		
RA46	24366333	CF, 33k ohm
RA48	24366153	CF, 15k ohm
RA49	24366333	CF, 33k ohm
RA60	24366333	CF, 33k ohm
RA61	24360225	CF, 2.2M ohm, 1/8W
RA62	24366752	
RA64	24946226	
RA65	24366103	CF, 10k ohm
RA67	24366152	CF, 1500 ohm
RA68	24366123	CF, 12k ohm
RA69	24366823	CF, 82k ohm
RA70	24366153	CF, 15k ohm
RA71	24366102	CF, 1k ohm
RA72	24366103	CF, 10k ohm
RA73	24366223	CF, 22k ohm
RA74	24366223	CF, 22k ohm
RA75	24366102	CF, 1k ohm
RA78	24366103	CF, 10k ohm
RA86		CF, 3900 ohm
<b>⚠ RA97</b>	24383103	OMF, 10k ohm, 2W
RB01	24366333	CF, 33k ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	
RB06	24366473	
RC06	24366222	CF, 2200 ohm
RC08	24366222	CF, 2200 ohm
RH01	24366102	CF, 1k ohm
RH02	24366152	CF, 1500 ohm
RH03	24366102	CF, 1k ohm
RH04	24366182	CF, 1800 ohm
RH05	24366102	CF, 1k ohm
RH07	24366102	CF, 1k ohm
RH09	24366102	CF, 1k ohm
RH11	24366101	CF, 100 ohm
RH32		CF, 3300 ohm
RM03	24366182	CF, 1800 ohm
RM04	24366242	CF, 2400 ohm
RM05	24366221	CF, 220 onm
RM06	24366221	CF, 220 ohm
RN02	24366102	CF, 1k ohm
RN05	24366392	CF, 3900 ohm
RN08	24366103	CF, 10k ohm
RN16	24366103	CF, 10k ohm
RN17	24366473	CF, 47k ohm
RN19	24366473	CF, 47k ohm
RN20	24366152	CF, 1500 ohm
RN21	24366103	CF, 10k ohm
RN22	24366751	CF, 750 ohm
RN23	24366512	CF, 5100 ohm
RN26	24366512	CF, 5100 ohm
RN27	24366202	CF, 2k ohm
RN28	24366113 24366105	CF, 11k ohm
RN32		CF, 1M ohm CF, 10k ohm
RN36	24366103	
RN37	24366473	CF, 47k ohm CF, 5600 ohm
RN38	24366562	CF, 5600 ohm
RN39	24366562 24366562	CF, 5600 ohm
RN40		CF, 1500 ohm
RN41	24366152	CF, 1500 ohm
RN44	24366152 24366473	
RN45	24366103	CF, 47k ohm CF, 10k ohm
RN46	24366473	CF, 10k ohm
RN47	24300473	CF, 47K OHIII

Location	Part No.	Description
No.		'
RN48	24366103	CF, 10k ohm
RR01	24366102	CF, 1k ohm
RR06	24366471	CF, 470 ohm
RV01	24366821	CF, 820 ohm
RV02	24366102	CF, 1k ohm CF, 1k ohm
RV03 RV04	24366102 24366102	CF, 1k ohm
RV05	24366101	CF, 100 ohm
RV06	24366101	CF, 100 ohm
RV07	24366102	CF, 1k ohm
RV08	24366102	CF, 1k ohm
RV09	24366101	CF, 100 ohm
RV10	24366102	CF, 1k ohm
RV11	24366102	CF, 1k ohm
RV12	24366101	CF, 100 ohm
RV13	24366103	CF, 10k ohm
RV14	24366103	CF, 10k ohm
RV15	24366101	CF, 100 ohm
RV16	24366473	CF, 47k ohm
RV17	24366473	CF, 47k ohm
RV18	24366332	CF, 3300 ohm
RV19	24366222	CF, 2200 ohm
RV20	24366101	CF, 100 ohm
RV21	24366332 24366332	CF, 3300 ohm CF, 3300 ohm
RV22	24366332	CF, 47k ohm
RV23 RV24	24552750	OMF, 75 ohm, 1/2W
RV25	24366331	CF, 330 ohm
RV26	24366391	CF, 390 ohm
RV27	24366473	CF, 47k ohm
RV29	24366472	CF, 4700 ohm
RV30	24366102	CF, 1k ohm
RV31	24366910	CF, 91 ohm
RV32	24366820	CF, 82 ohm
RV33	24366332	CF, 3300 ohm
RV34	24366473	CF, 47k ohm
RV35	24366104	CF, 100k ohm
RV36	24366104	CF, 100k ohm CF, 47k ohm
RV37	24366473 24366910	CF, 47k onin CF, 91 ohm
RV39 RV40	24366910	CF, 91 01111 CF, 68 ohm
RV40	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366510	CF, 51 ohm
RV44	24366510	CF, 51 ohm
RV45	24366510	CF, 51 ohm
RV46	24366101	CF, 100 ohm
RV47	24366104	CF, 100k ohm
RV48	24366102	CF, 1k ohm
RV49	24366102	CF, 1k ohm
RV60	24366220	CF, 22 ohm
RV61	24366220	CF, 22 ohm
RV62	24366220	CF, 22 ohm
RV63	24366562 24366562	CF, 5600 ohm CF, 5600 ohm
RV64 RV65	24366104	CF, 100k ohm
RV66	24366562	CF, 5600 ohm
RV67	24366562	CF, 5600 ohm
RV68	24366471	CF, 470 ohm
RV69	24366473	CF, 47k ohm
RV70	24366473	CF, 47k ohm
RV71	24366332	CF, 3300 ohm
RV72	24366103	CF, 10k ohm
. RV73	24366680	CF, 68 ohm
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Location	Part No.	Description
No.	i att ivo.	Description
<b> </b>		
RX02	24366102	CF, 1k ohm
RX05	24366101	CF, 100 ohm
BX08	24366101	CF, 100 ohm
	24366101	CF, 100 ohm
RX10		
RX13	24366102	CF, 1k ohm
COILS & TR	ANSFORM	ERS
L101	23237987	Coil, Peaking, TRF4100AC
L102	23262680	Coil, IF, TRF1148D
L103	23237987	Coil, Peaking, TRF4100AC
L104	23237987	Coil, Peaking, TRF4100AC
L105	23237367	Coil, Peaking, TRF4109AC
1		
L107	23237987	Coil, Peaking, TRF4100AC
L151	23262668	Coil, IF, TRF1162T
L152	23262663	Coil, IF, TRF1157T
L153	23262813	Coil, IF, TRF1077D
L161	23201004	Coil, RF Choke, TRF9202B
L162	23261985	Coil, RF Choke, TRF9221
L181	23261985	Coil, RF Choke, TRF9221
L201	23237974	Coil, Peaking, TRF4121AC
L311	23103901	Coil (Ferrite Bead), TEM2017
L315	23237987	Coil, Peaking, TRF4100AC
L362	23237367	Coil, Choke, AT4043/60T
	23211897	Coil, Choke, AT4043/100T
L363		
L406	23103859	Coil (Ferrite Bead), TEM2011
L411	23233097	Coil, Linearity, TLN2149G
L414	23221936	Coil, Choke, TLN3041
L441	23238934	Coil, Peaking, TRF4109AC
<b>⚠</b> L462		DY, Supplied with V901
L503	23237987	Coil, Peaking, TRF4100AC
L551	23250972	Coil, 1H-Delay Matching,
		TRF5418D
L590	23289221	Coil, Peaking, TRF4221AF
L601	23262680	Coil, IF, TRF1148D
L602	23262821	Coil, Peaking, TRF4100AF
	23237986	
L604		Coil, Peaking, TRF4120AC
L651	23232942	Coil, Variable, TRF3077
L652	23232942	Coil, Variable, TRF3077
L801	23221050	Coil, RF Choke, TLN1015
L802	23103859	Coil (Ferrite Bead), TEM2011
L803	23221747	Coil, Choke, TRF9253D
L804	23221747	Coil, Choke, TRF9253D
L805	23222694	Coil, Width, TLN2026
L806	23103859	Coil (Ferrite Bead), TEM2011
L807	23222694	Coil, Width, TLN2026
∆ L901	23200749	Coil, Degaussing, TSB2247
LA01	23238934	Coil, Peaking, TRF4109AC
LA02	23221685	Coil, Choke, TLN3193
i		Coil, IF, TRF1112
LB01	23262778	
LM01	23262797	Coil, IF, TRF1093D
LM02	23250865	Coil, IF, TRF5414DA
LM03	23250865	Coil, IF, TRF5414DA
LM04	23262798	Coil, IF, TRF1092D
LN02	23237985	Coil, Peaking, TRF4150AC
<b>⚠</b> T401	23224997	Transformer, Horiz. Drive,
		TLN1027
<b>⚠</b> T461	23236089	Transformer, Flyback, G4298
<u>∧</u> T801	23211875	Line Filter, TRF3157
<u>∧</u> T803	23217074	Transformer, Converter,
ات	20211014	47003593
		+, 500000
SEMICONDUCTORS		
İ		
IC101	23318437	IC, μPC1820CA
IC303	23119142	IC, AN5521
L		

Location	Part No.	Description
No.		
IC361	23318231	IC, TEA2031A
IC408	23319203	IC, MC7812CT
IC501	B0379475	IC, TA8659AN
IC601	23318390	IC, TDA4480-2
IC660	23118327	IC, AN7178
IC667	B0356190	IC, TA7630P
IC801	23318232	IC, TDA4601
IC807		IC, L78MR05-FA
ICA01	23319152	IC, M34300-588SP
ICA02	23318482	IC, M6M80011AP
ICA04	23119441	IC, LA7910
ICH01	23119139	IC, AN5862K
ICV01	B0383505	IC, TA8720AN
Q102	23114691	Transistor, BC557A
Q103	23118980	Transistor, BC337
Q104	23114689	Transistor, BC547A
Q161	A6708871	Transistor, 2SC388ATM
Q162	A6708871	
Q163	A6708871	Transistor, 2SC388ATM
Q201	23114689	Transistor, BC547A
Q202	23114691	Transistor, BC557A
Q203	23114689	Transistor, BC547A
Q204	A6041876	Transistor, 2SK117-GR FA-2
Q205	A6342200	Transistor, 2SC2878-A
Q206	23114689	Transistor, BC547A
Q208	23114689	Transistor, BC547A
Q362	23114689	Transistor, BC547A
Q363	23114689	Transistor, BC547A
Q364	23114689	Transistor, BC547A
Q402	A678971D	Transistor, 2SC1569 FA-5
<b>⚠</b> Q404	23314376	Transistor, ON4408
Q406	23314229	Transistor, 2SD1378-Q
Q502	23114691	Transistor, BC557A
Q503	23114691	Transistor, BC557A
Q505	23114693	Transistor, BF871
Q506	23114689	Transistor, BC547A
Q507	23114693	Transistor, BF871
Q508	23114689	Transistor, BC547A
Q509	23114693	Transistor, BF871
Q510	23114689	Transistor, BC547A
Q514	23114688	Transistor, BC327
Q516	23114689	Transistor, BC547A
Q602	23114689	Transistor, BC547A
Q603	23114689	Transistor, BC547A
Q604	A6041876	Transistor, 2SK117-GR FA-2
Q605	A6041876	Transistor, 2SK117-GR FA-2
Q606	23114689	Transistor, BC547A
Q607	23114689	Transistor, BC547A
Q608	23114689	Transistor, BC547A
Q661	23114691	Transistor, BC557A
Q662	23114691	Transistor, BC557A
Q663	23114689	Transistor, BC547A
Q664	23114689	Transistor, BC547A
Q665	A6342200	Transistor, 2SC2878-A
Q666	A6342200	Transistor, 2SC2878-A
Q671	A6708871	Transistor, 2SC388ATM
Q672	A6708871	Transistor, 2SC388ATM
Q699	23114691	Transistor, BC557A
Q802	23314376	Transistor, ON4408
Q803	23314246	Transistor, 2SC2023 LF-4
Q804	A6547303	Transistor, 2SA1321
Q805	A6325067	Transistor, 2SC2230A-Y
Q806	23114546	Transistor, BC557B
QA05	23114689	Transistor, BC547A
1		

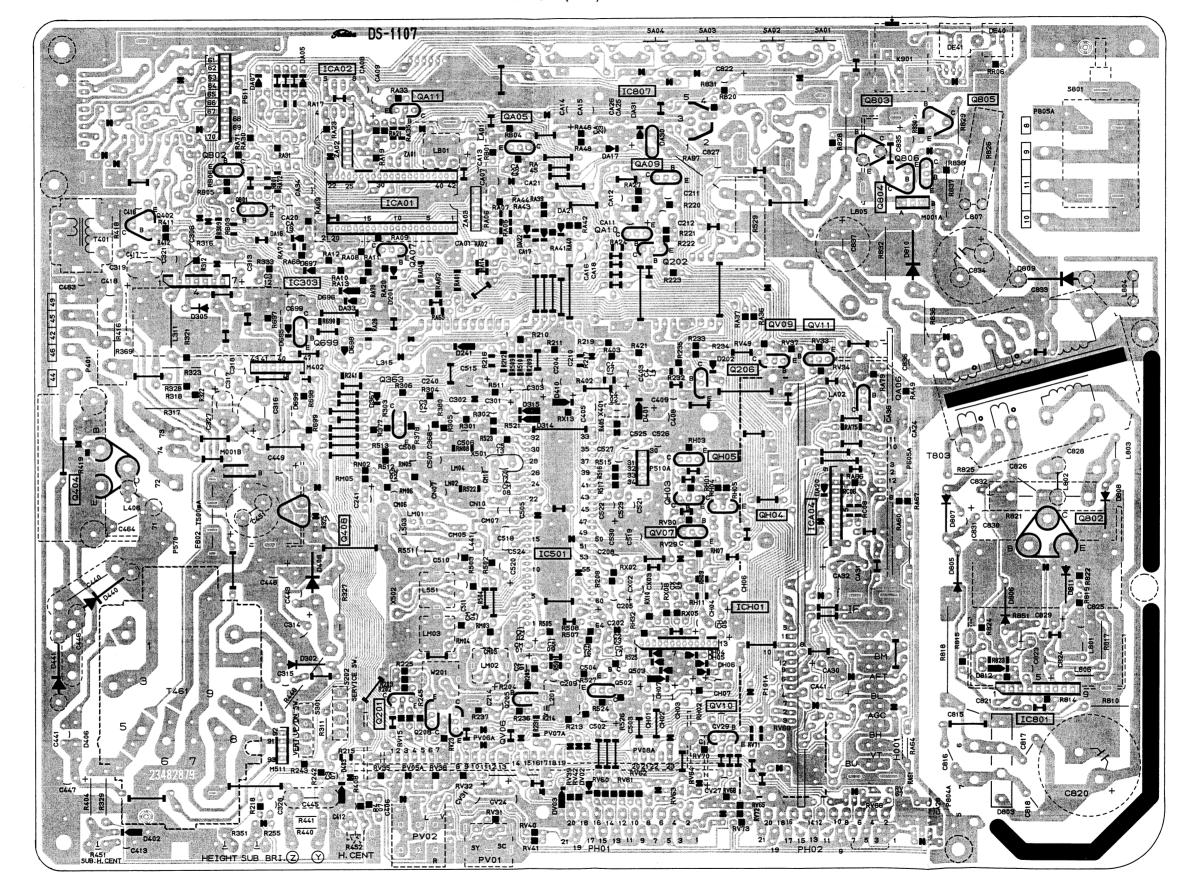
Location	Part No.	Description
No.		
Ovoe	22114622	Transistor DCE47D
QA06 QA07	23114632 23114689	Transistor, BC547B
QA07 QA09	23114689	Transistor, BC547A Transistor, BC557A
QA10	23114691	Transistor, BC557A Transistor, BC547A
QA10 QA11	23114546	Transistor, BC547A Transistor, BC557B
QB01	23114546	Transistor, BC547A
QB02	23114689	Transistor, BC547A
QH03	23114689	Transistor, BC547A
QH04	23114689	Transistor, BC547A
QH05	23114689	Transistor, BC547A
QN08	23114691	Transistor, BC557A
QN11	A6041876	Transistor, 2SK117-GR FA-2
QN13	23114689	Transistor, BC547A
QN15	23114689	Transistor, BC547A
QN16	23114689	Transistor, BC547A
QV02	23114691	Transistor, BC557A
OV03	23114689	Transistor, BC547A
QV05	23114689	Transistor, BC547A
QV06	23114689	Transistor, BC547A
QV07	23114689	Transistor, BC547A
QV09	23114632	Transistor, BC547B
QV10	23114689	Transistor, BC547A
QV11	A6342200	Transistor, 2SC2878-A
D201	23115599	Diode, 1N4148
D202	23115599	Diode, 1N4148
D241	A7150041	Diode, 1SS104
D302 D305	23118479 23118479	Diode, BYD33J Diode, BYD33J
D305 D314	23118479 A7117205	Diode, BYD33J Diode, Zener, 04AZ12X
D314 D315	A7116715	Diode, Zener, 04AZ7.5Y
D315 D361	A7117705	Diode, Zener, 04AZ20X
D361 D362	23115599	Diode, 1N4148
D362 D363	23118633	Diode, TN4148 Diode, Zener, RD3.0ES-B2
D366	23115599	Diode, 1N4148
D367	23115599	Diode, 1N4148
D368	A7118135	Diode, Zener, 04AZ30R
D401	A7116925	Diode, Zener, 04AZ9.1Z
D402	A7117715	Diode, Zener, 04AZ20Y
D403	A7117215	Diode, Zener, 04AZ12Y
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D409	A7117015	Diode, Zener, 04AZ10Y
D410	A7116815	Diode, Zener, 04AZ8.2Y
D440	23118995	Diode, BY228
D441	23118994	Diode, BYW95C
D593	23115599 23115599	Diode, 1N4148 Diode, 1N4148
D594 D595	23115599 23115599	Diode, 1N4148 Diode, 1N4148
D595 D601	23115599	Diode, 1N4148 Diode, 1N4148
D660	A7117935	Diode, Tw4146 Diode, Zener, 04AZ24R
D696	23115599	Diode, 1N4148
D690 D697	23115599	Diode, 1N4148
D698	23115599	Diode, 1N4148
D699	23115599	Diode, 1N4148
D803	23118173	Diode, RBV-406M-LFA
D805	23118479	Diode, BYD33J
D806	23118479	Diode, BYD33J
D807	23118479	Diode, BYD33J
D808	23118736	Diode, BYV96E
D809	23118451	Diode, RU4A
D810	23118052	Diode, RU4Z
D811	23118479	Diode, BYD33J
D812	A7116515	Diode, Zener, 04AZ6.2Y
DA05	23115599	Diode, 1N4148

Location No.	Part No.	Description
DA07	23115599	Diode, 1N4148
DA15	23115599	Diode, 1N4148
DA16	23115599	Diode, 1N4148
DA17	23115599	Diode, 1N4148
DA20	23115599	Diode, 1N4148
DA21	23115599	Diode, 1N4148
DA22	23115599	Diode, 1N4148
DA30	23115878	Diode, Zener, μPC574J(L)
DA31	23115599	
DA33	23115599	Diode, 1N4148
DA37	23118698	Diode, Zener, 04AZ4.7X
DE40	23118969	Diode (LED), MV57124, Red
DE41	23318436	Diode (LED), MV53124A, Yellow
DH01	23115599	Diode, 1N4148
DH02	23115599	Diode, 1N4148
DH03	23115599	Diode, 1N4148
DH04	23115599	Diode, 1N4148
DH05	23115599	Diode, 1N4148
DH06	23115599	Diode, 1N4148
DH07	A7116215	Diode, Zener, 04AZ4.7Y
DN02	23115599	Diode, 1N4148
DN04	A7288601	Diode, 1S2186 FA-1
DN05	A7116305	Diode, Zener, 04AZ5.1X
DN06	A7288601	Diode, 1S2186 FA-1
DN07	A7288601	Diode, 1S2186 FA-1
DN08	A7288601	Diode, 1S2186 FA-1
DN09 DN11	A7288601 A7288601	Diode, 1S2186 FA-1 Diode, 1S2186 FA-1
DN11	A7288601	Diode, 1S2186 FA-1
DN20	A7288601	Diode, 1S2186 FA-1
DN21	A7288601	Diode, 1S2186 FA-1
DV01	A7116915	Diode, Zener, 04AZ9.1Y
DV02	23115599	Diode, 1N4148
DV03	A7116215	Diode, Zener, 04AZ4.7Y
MISCELLAN		
⚠ F801	23144896	Fuse, 2.0A
F801A	23165102	Fuse Holder
⚠ F802	23144876	•
F802A	23165102	Fuse Holder Remote Sensor, IR-9109-K
K901 P601	23120303 23367681	Plug, 8P
P661	23365432	Earphone Jack
↑ P801	23176697	Power Cord
PH01	23365598	21 Pin Connector
PH02	23365598	21 Pin Connector
PV01	23365515	Jack, 4P
PV02	23365604	Jack, Phono, 3P
S202	23145542	Switch, Lever, 1C3P
S301	23145682	Switch, Lever, 1C3P
<b>⚠</b> S801	23145434	Switch, Power, 2C2P
SA01	23145430	Switch, Push, 1C1P
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P
SA04	23145430	Switch, Push, 1C1P
\	23902353	Socket, CRT, 10P
W201 W661	23250870 23151199	Delay-Line, TRF2100 Speaker, SPK-1267,
W662	23151199	60x70mm, 8 ohm Speaker, SPK-1267,
X401	23153886	60x70mm, 8 ohm Ceramic Resonator, 503kHz,
<u> </u>		TCR1012

Location No.	Part No.	Description
X501	23153979	Crystal, 4.43MHz
X502	23250950	Coil, 1H-Delay Line, DL711
Z101	A5615249	PIF SAW Filter, F1804D
Z102	23153725	Ceramic Resonator, TCR1043
Z103	23107911	Ceramic Video Trap, 5.5 to
	2010.011	6MHz, TCF1019
Z104	23107658	Ceramic Video Trap,
	20107000	5.74MHz, TCF1052
Z201	23107925	Ceramic Video Trap,
2201	23107323	
Z602	A5613025	6.5MHz, TCF1013
Z603		L-Secam WSSF, F328EM
2003	23107948	Ceramic Filter, 6.0MHz,
7004	22127055	SFE6.0MBF
Z604	23107855	Ceramic Filter, 5.5MHz,
7444		TCF1031
ZA01	23153741	Ceramic Resonator, TCR1029
ZA02	24000788	Resistor Block, 4700 ohmx4,
		1/8W
ZV01	23107849	Ceramic Video Trap,
		4.43MHz, TCF1032
PC BOARD	ASSEMBLIE	S
U101A	23337501	PIF Board, PB0977-1
U101B	23337502	SIF Board, PB0977-2
U101C	23337503	A/V Board, PB0977-3
U902A	23337504	Main Board, PB0978
U903A	23336921	CRT Drive Board, PB0158-1
U903B	23336922	Power Board, PB0158-2
U903C	23336923	
U903D		DPC Board, PB0158-3
	23336924	Audio Board, PB0158-4
U903E	23336919	Headphone Board, PB0156-4
PICTURE TU	JBE	
<b>∆</b> V901	23312379	Picture Tube, A59ECY13X31
THAIED		
TUNER		
H001	23121626	Tuner, VHF/UHF, EG449
	. <b></b>	
REMOTE HA	AND SET PA	ARTS
K902	23120357	Remote Hand Unit, CT-9475
AT01	23304487	Upper Case
AT02	23300919	Lower Case
AT03	23300920	Battery Cover
AT04	23300921	Filter
ST01	23304488	Rubber Sheet
UT01	23336217	PC Board, PW9933
ZT01	23153736	Ceramic Resoantor,
2101	25155750	CSB455EB20
		C3B433EB20
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		i

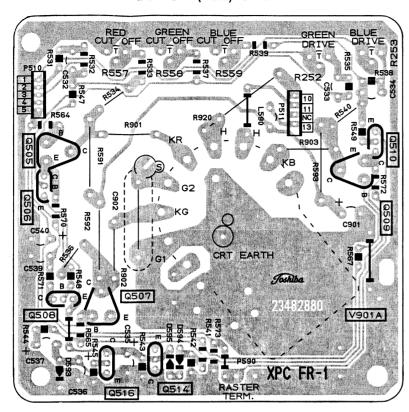
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# MAIN BOARD PB0978



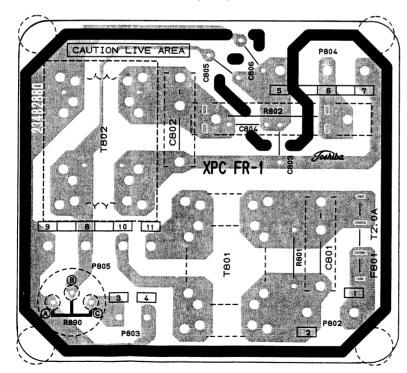
# CRT DRIVE BOARD PB0158-1

BOTTOM (FOIL) SIDE



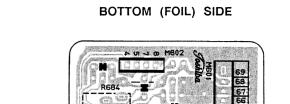
POWER BOARD PB0158-2

BOTTOM (FOIL) SIDE

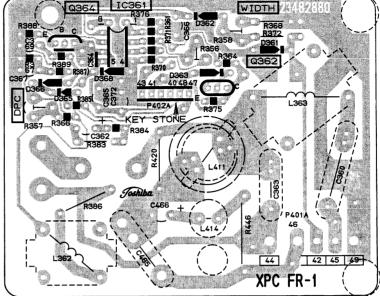


# DPC BOARD PB0158-3

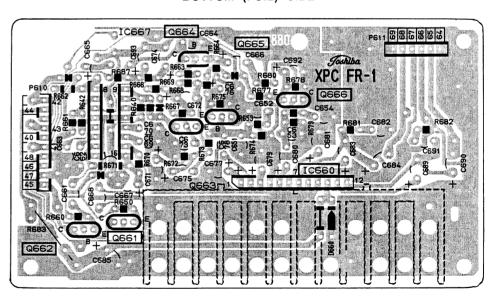
BOTTOM (FOIL) SIDE



**HEADPHONE BOARD PB0156-5** 

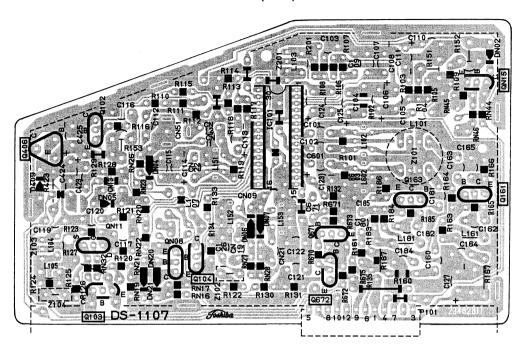


# **AUDIO BOARD PB0158-4**

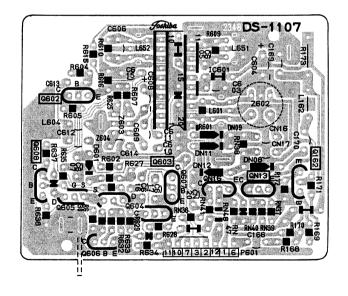


# PIF BOARD PB0977-1

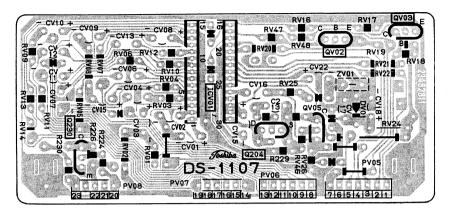
BOTTOM (FOIL) SIDE



# SIF BOARD PB0977-2



# A/V BOARD PB0977-3



# TERMINAL VIEW OF TRANSISTORS

 $\mathsf{E}^\mathsf{CB}$ 

① BC327 BC337 BC547A BC547B BC547C BC557A BC557B BC556A

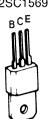


② 2SK30ATM 2SK117

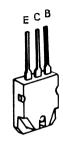
 $\mathsf{D}^\mathsf{GS}$ 



4 BF8712SD5532SC1569



5 2SC36782SC3182N



6 2SD1427 2SD1432

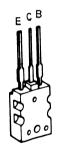


7

8 2SC388ATM 2SA1015 2SC1959 2SA562TM

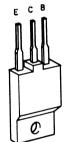


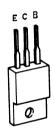
① 2SC2023



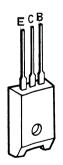




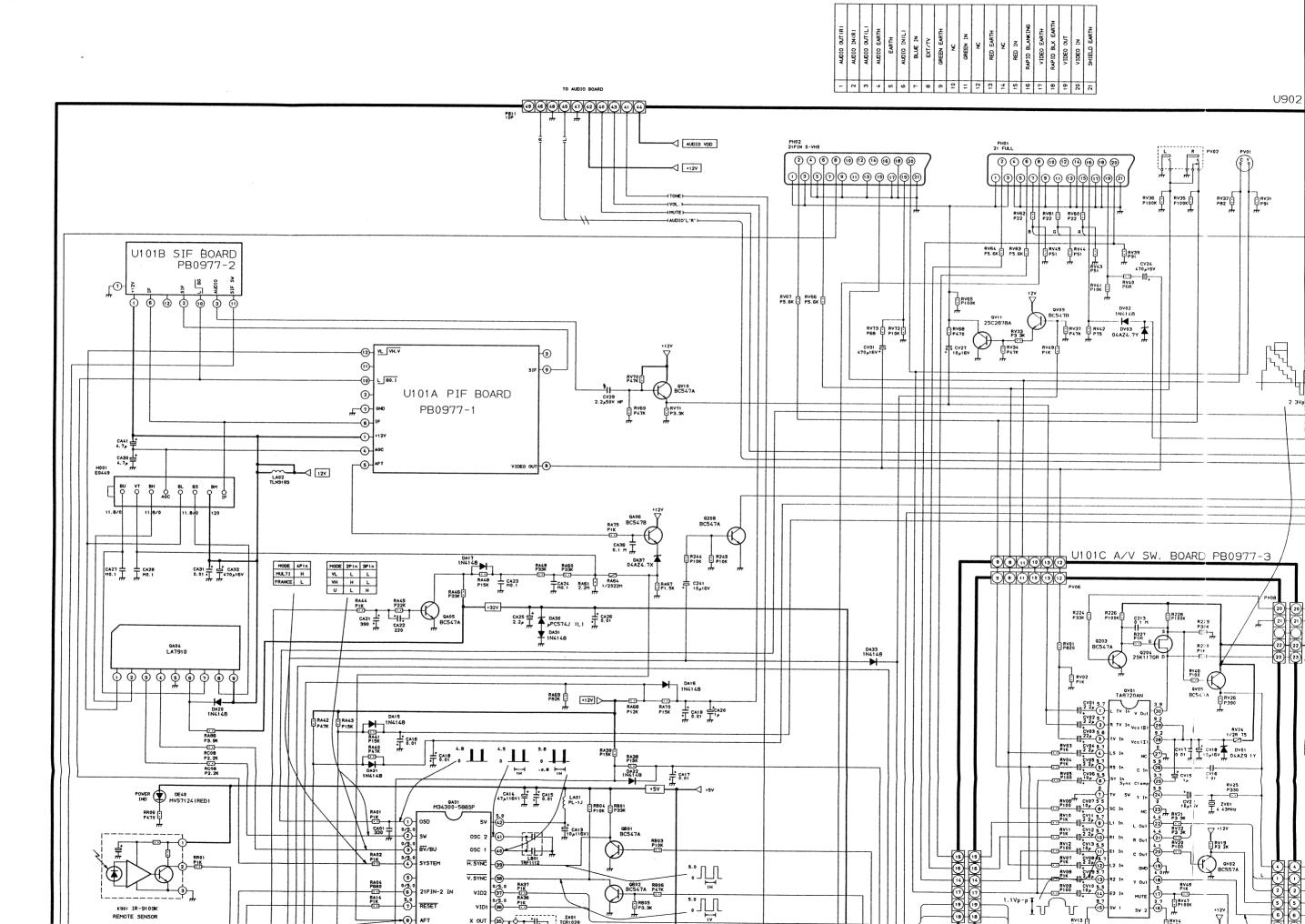


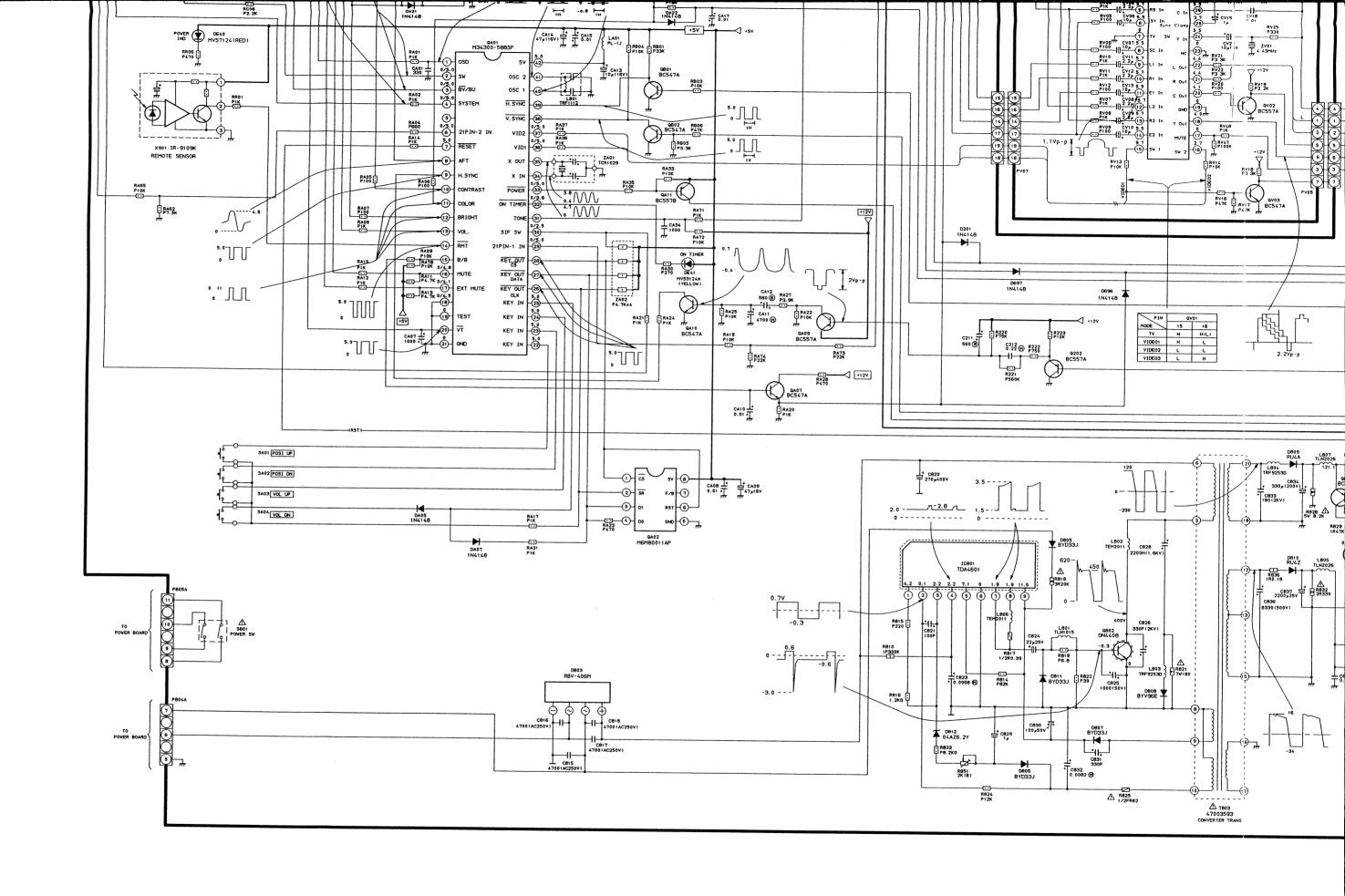


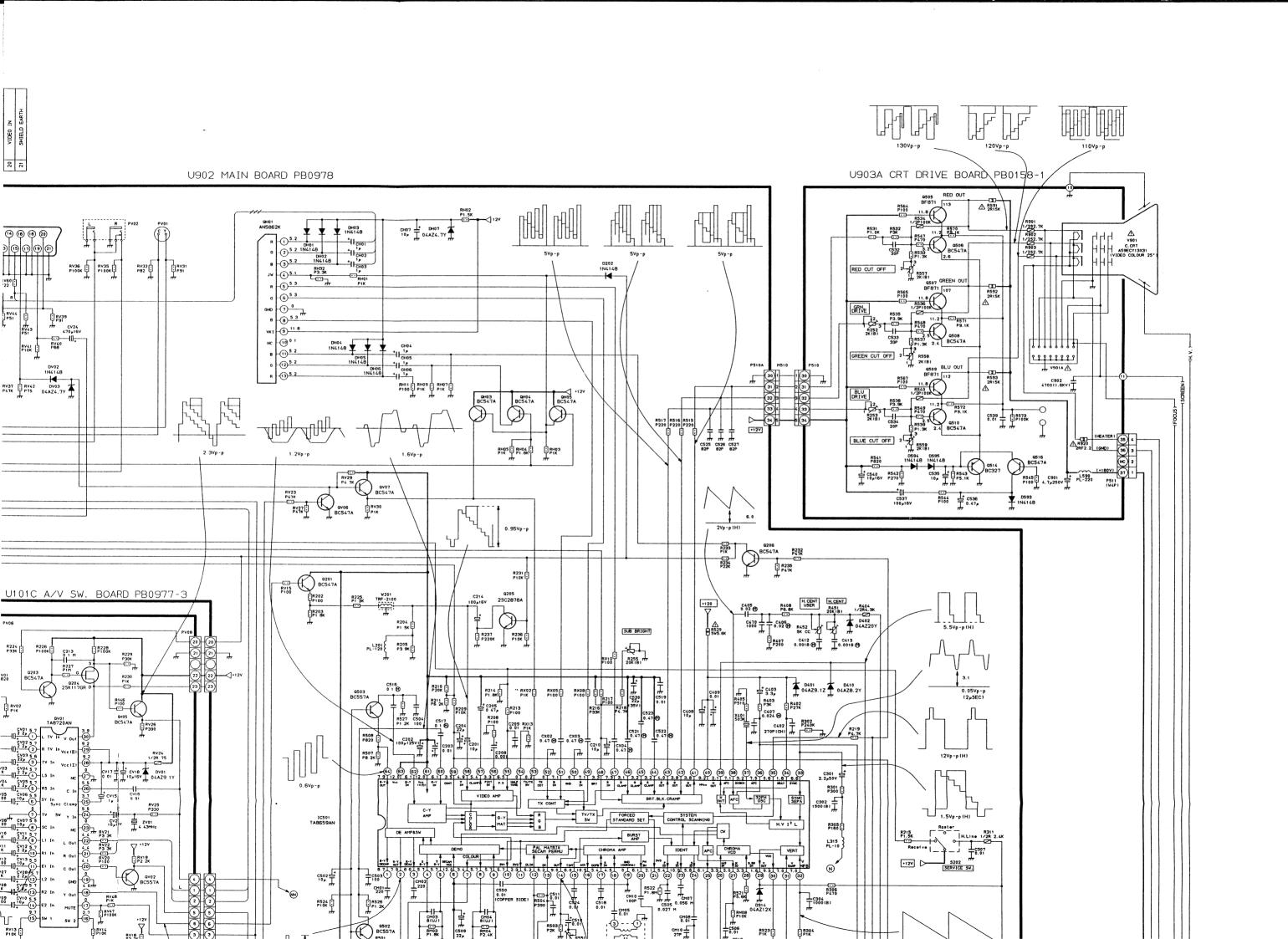
① 0N4409 0N4408

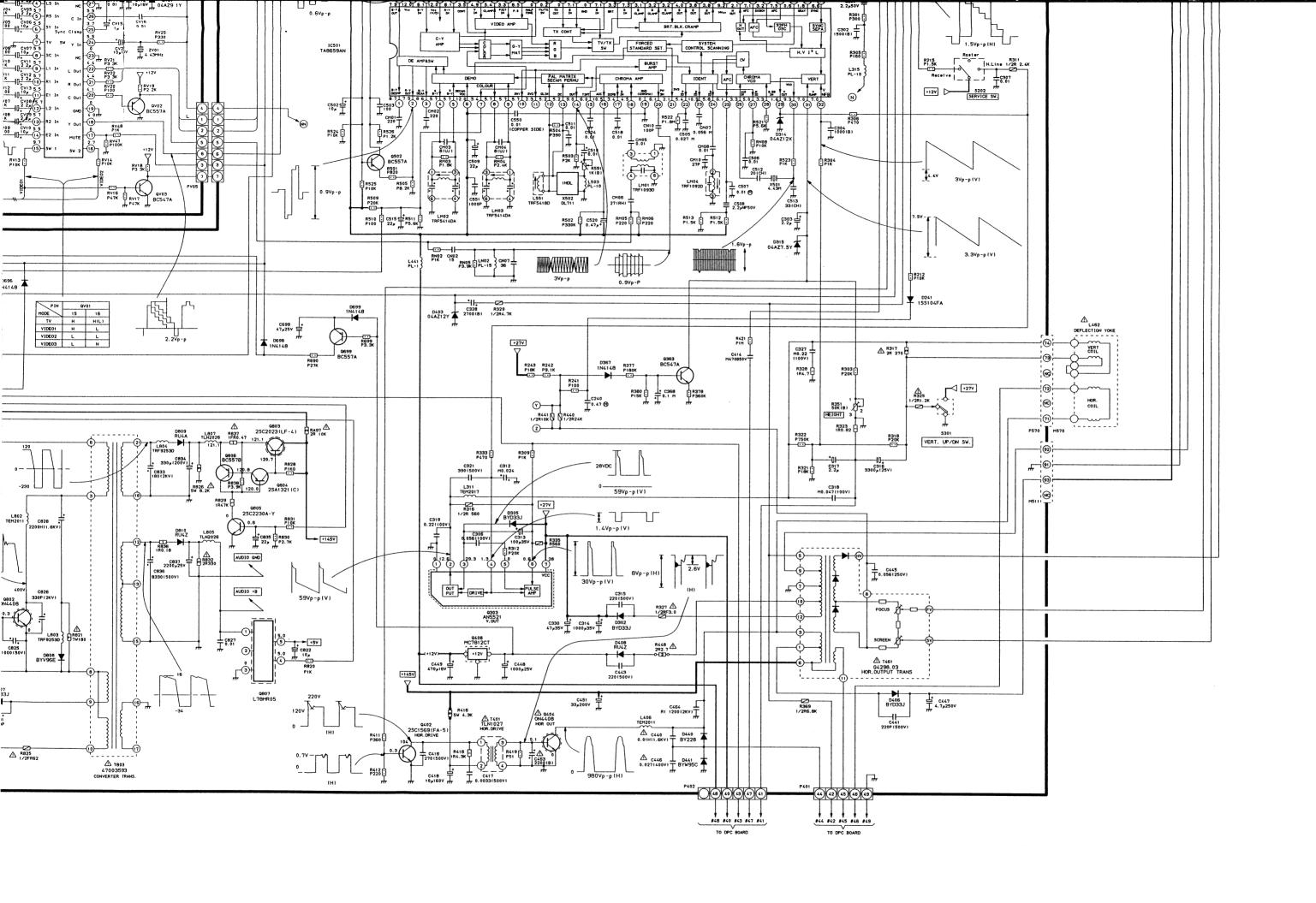


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# 2502SFT

# **SCHEMATIC DIAGRAM (2/2)**

#### IMPORTANT SAFETY NOTICE

Component marked with the International Hazard Symbol must, if changed, be replaced by an approved type and must be mounted as the original. This will ensure that the safety standards adhered to during manufacture will be maintained following any servicing procedure.

#### **OBSERVATION OF VOLTAGES AND WAVEFORMS**

- 1. Voltage readings were obtained using a high impedance digital voltmeter.
- (-) or ground lead of instruments should be connected to the ground marked (⊥) in the shematic on checking Non-isolated circuit surrounded by mark but should be connected to the points marked ( ★ ) on checking isolated circuit.
- 3. The voltage readings may vary as much as ±20%.
- Check that the Tuning, A.F.C., Brightness, Contrast and Colour controls are adjusted for the best picture, making sure that the Contrast, Brightness and Colour controls are set near to their mid-positions.
- The waveforms were taken using a standard colour bar signal and were observed using a wide band oscilloscope via a low capacity probe.

#### NOTES

1. This circuit diagram is subject to change without notice

#### **EXPRESSION**

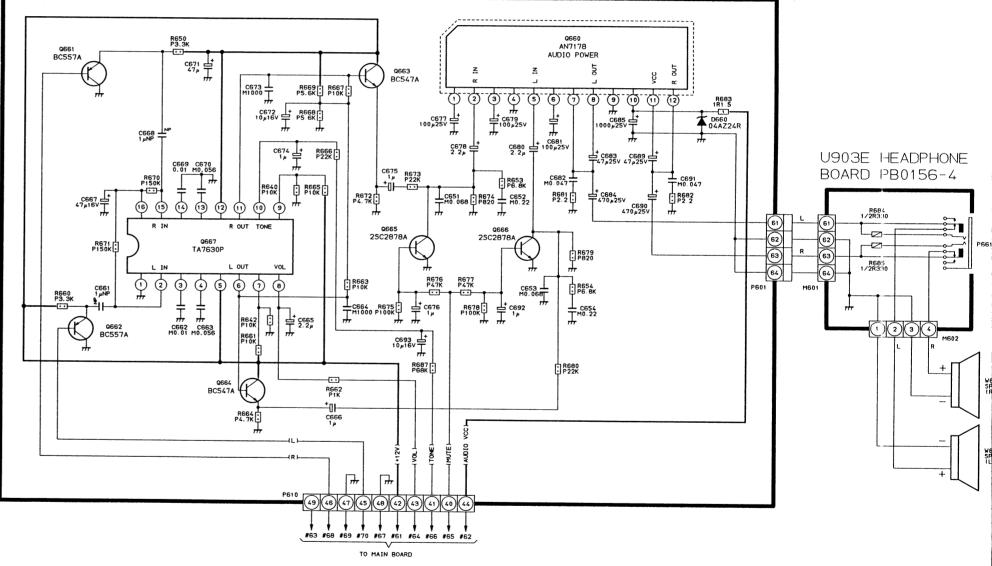
## VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- 1. Resistance is shown in ohm, k=1,000, M=1,000,000.
- Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
- 3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in µH, and the values less than 1 in H.

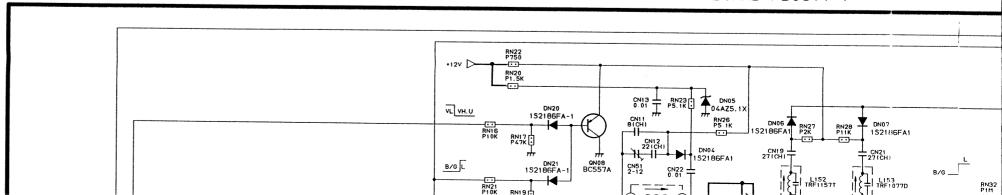
#### GROUNDING SYMBOL

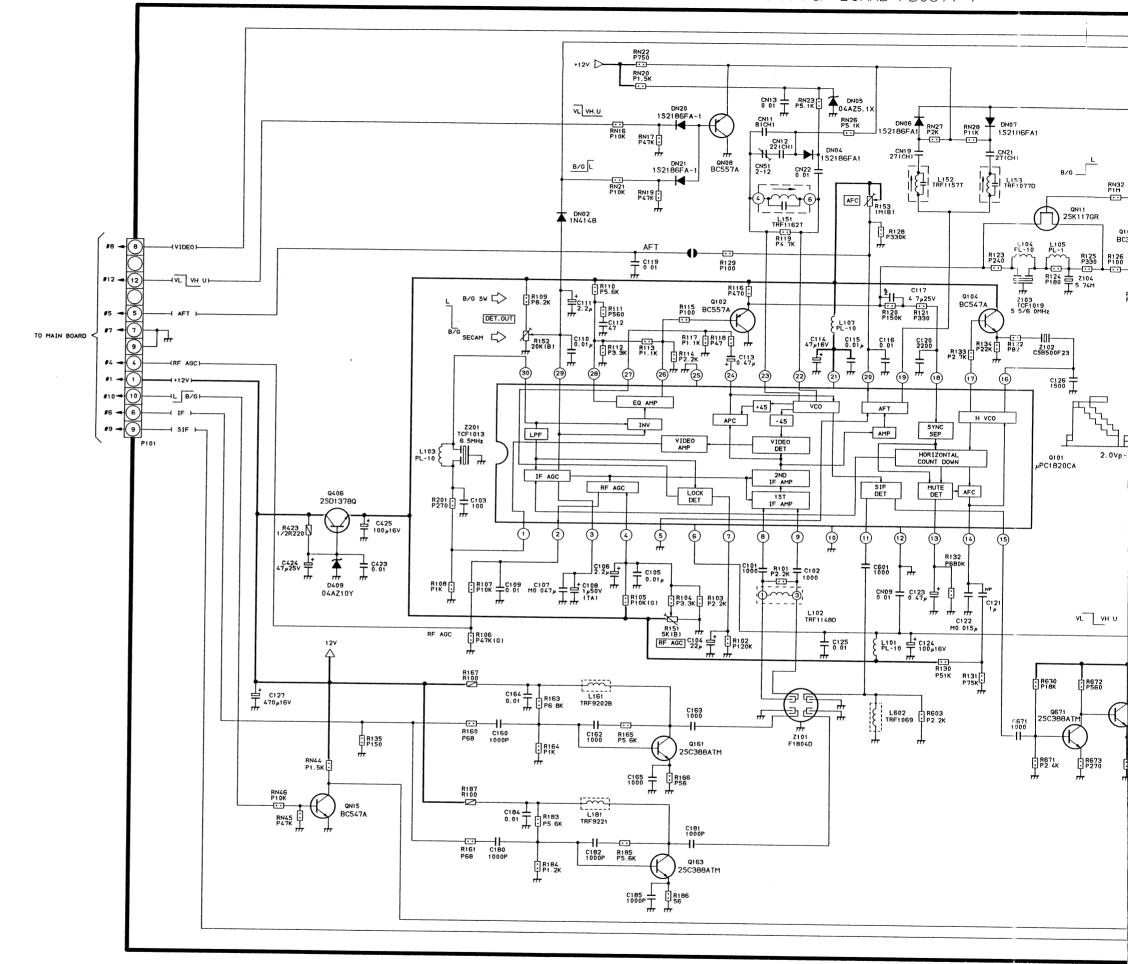
1. 1: Non isolated ground,  $\frac{1}{2}$ : Isolated ground.

#### U903D AUDIO BOARD PB0158-4



U101A PIF BOARD PB0977-1





notice.

values less than 1 are expressed in

values more than 1 are expressed in

#### RESISTORS

#### Prefixed to values:

relixed to values:	
TYPE	MARK
Carbon Comp.	S
Oxide Metal Film	R
Ins. Carbon Film	Р
Wire Wound	w
Cement covered W.W.	NO MARK
Fusible Res.	FR
	<u> </u>

TOLERANCE	MARK	
± 1%	(F)	
± 2%	(G)	

#### Suffixes to VR values:

Suffixes to values:

offixes to VH values:			
LAW	MARK		
Linear	(B)		
'C' Curve Characteristic	(C)		

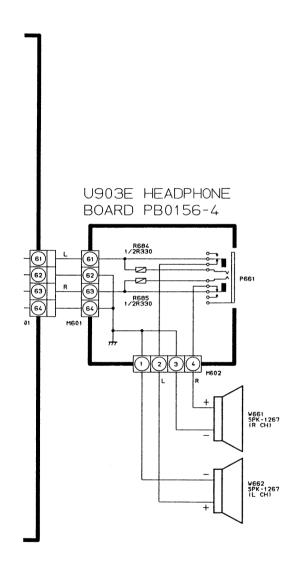
#### Rating Markings:

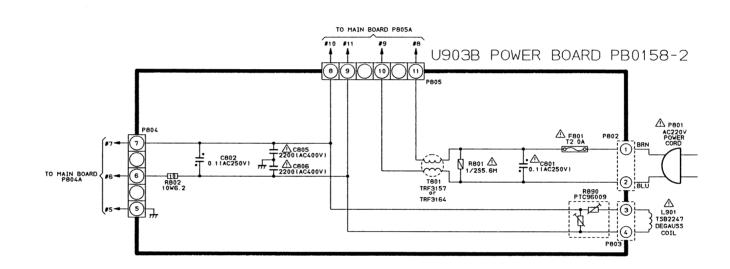
WATTAGE	MARK	WATTAGE	MARK
1/6W		3 W	
1/4W	<b></b>	5W	
1/400		10W	
1/2W		15W	-[15]-
1 W	<u>-</u>	20W	
2W	- 2 -	25 W	

#### CAPACITORS

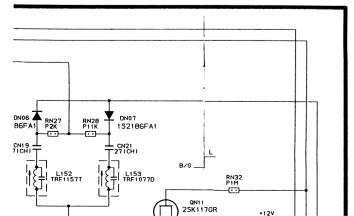
#### Rating Markings:

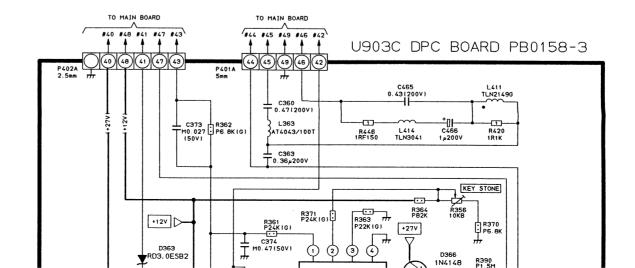
	Mating markings.			
Туре	Mark			
Ceramic Disc 50V Only	٦۴			
Electrolytic	<sup>‡</sup> ∃⊩ <del>‡</del> ∎⊩			
Electrolytic Non-Polar	- <b>111</b> -			
Variable Capacitor	#			
Other	41-			

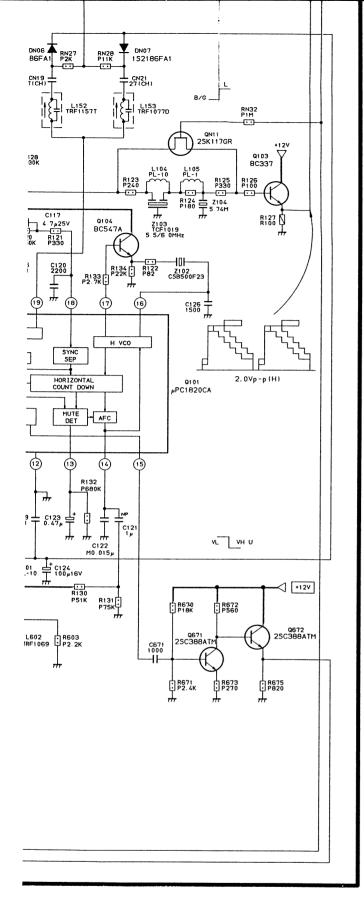


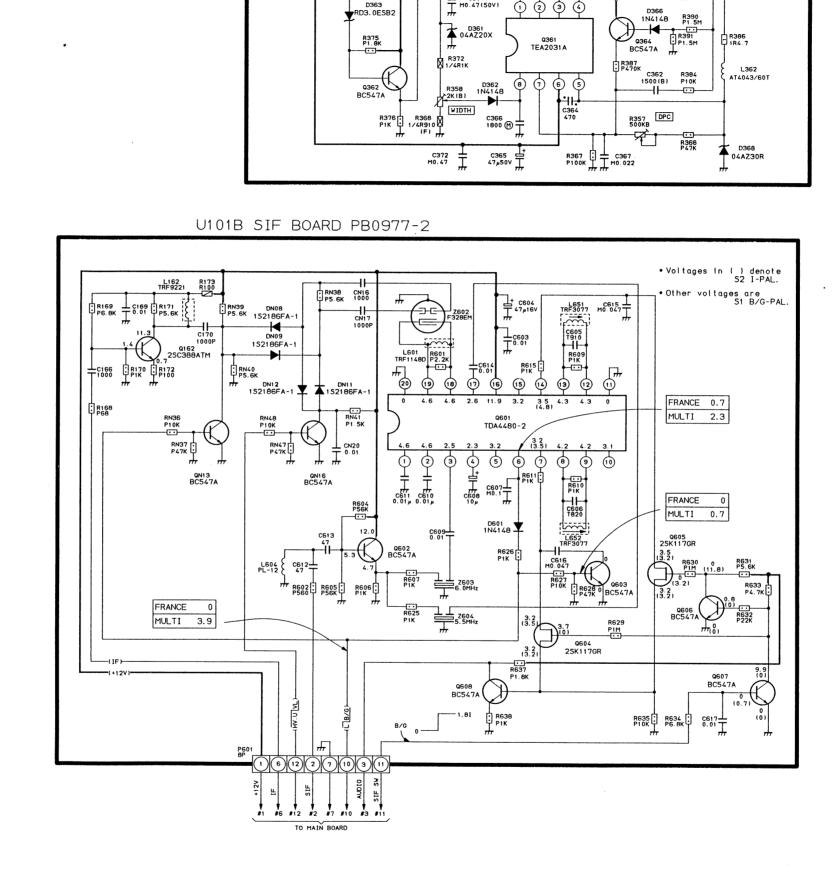












C373 R362 M0. 027 P6. 8K (G)

+12V

D363 RD3. 0ESB2

AT4043/100T

R361 P24K(G) C374 M0.47(50V)

R420 1R1K

L414 TLN3041

R446 1RF150

Q361 TEA2031A

C466 1 ب2000

R364 R356 P82X 10KB